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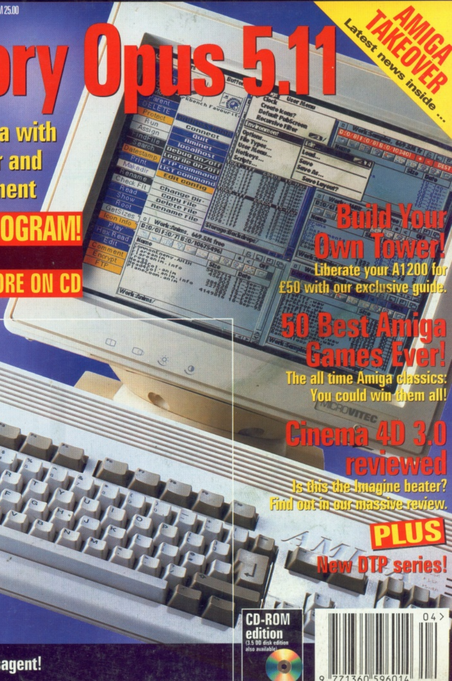

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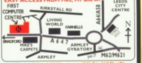

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AMIGA MAGAZINE APRIL 1997 • CONTENTS

Editorial

What a month! It's been a bit mad these past few weeks, what with getting all of this lot ready for you. People say this scene is quiet at the moment: don't you believe it! Apart from pulling out all the stops to being you the fabulous Directory Opus 5.11, we've been beavering away at this month's main features. First of all there's our Best 50 Amiga Games Ever chart and competition to win them all. You should have heard the arguments that caused! Then there's part one of our guide to transplanting your Amiga into a tower case and somewhere we found time to pack in mightily busy reviews sections along with the usual high standard of tutorials. Time for a pint and a packet of Twiglets, I feel.

Tony

Tony Horgan, Editor

Feature

20 50 Best Amiga Games Ever!

This is not just any old games features, this is a list of the 50 best games ever to have graced the Amiga, lovingly compiled by the CU Amiga Magazine team. However, we're not ones to get you all excited about the games of yesteryear and then say "pity you can't get them any more". No Sir, this list is made of top vintage games that are still available today. We'll even tell you where you can get them. And there's a chance to win the lot of them to boot!

Feature

28 Build Your Own Tower!

Yes, you can believe your eyes, it is a feature on how to build your own tower. Over the past few months we have been bombarded with people asking us how they can make up their own tower. Well, now you can. To keep all you people happy, this is the first of a three-part feature which includes all you need to know about setting up your own tower complete with an easy-to-follow ten step guide. We kick off with a guide to moving all your drives over to a mini tower like this one.

Cover Disks and Super CD-ROM

AMIGA MAGAZINE
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Directory Opus 5.11
FULL PROGRAM!
DISK 155
Tiny Troops
AMIGA

8 Directory Opus 5.11

What a coup! The full version of this wonderful package is yours on this month's technical cover disk. Maybe Christmas has come early this year.

6 Tiny Troops

Exercise your grey matter a little with this exclusive demo of Vulcan's latest strategy game. Cannon Fodder meets Time Keepers. You're in for a treat.

12 Super CD-ROM 9

Our top quality guaranteed CDs have become the expected standard now from CU Amiga Magazine. Never one to disappoint we've managed to pull yet another superb CD out of our hat. More top software than you could ever imagine.

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COVER DISK AND CD-ROM DUPLICATION BY DISKXPRESS

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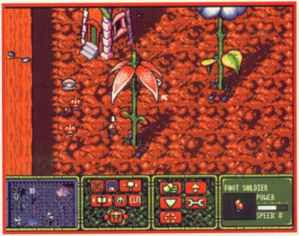
Tiny Troops

For all Amigas with 1Mb

AMIGA
DISK 155
Tiny Troops
The thinking man's Cannon Fodder
Exclusive playable demo!
AMIGA

This demo has three complete playable levels of the latest top strategy war game to hit the shelves.

- **Thinking man's Cannon Fodder**
- **Works on all Amigas with 1Mb**
- **Lots of miniature fighting fun**



Cover disk 155 has three complete playable levels of the latest war game from Vulcan Software. A kind of thinking man's Cannon Fodder it's one tough cookie of a game to beat. You've got to use all your best strategy plans and put them into action properly otherwise you'll end up wiped out. Are you up for it? Can you take the challenge? Why not try out this demo and see for yourself.

This demo has most of the options available in the finished game. You will not, however, be able to load or save a game. But there is enough there to keep you busy for a while.

FURFURIANS

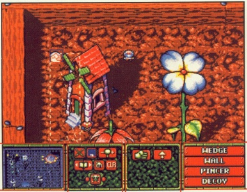
The aim of the demo is simple, kill or be killed. You've got a team of little soldiers at your command (you can choose either side) which you must make your mind as to how to utilise them best to win.

Control is simple: either joystick or mouse but it is best to use a mouse. Clicking on a soldier or icon will activate it immediately. Your general will also give you a few handy hints before each battle as how to approach it best. Check out the box below to see what options are available.

Cover disk 155 will run on all Amigas and is self booting, all you have to do is stick it in your Amiga and turn it on. Simple. Good luck and remember be careful out there.

What do I do then?

Game Map
This is where you see the bigger picture. Click here if you want to scroll through the level to have a look at the lie of the land: ie where the enemy base is and if there are any enemy soldiers lurking about in out of the way places.



Group Move
Holding the left mouse button or joystick down enables you to select a group of men. Once you've done that you can choose one of these four formations to put them into. Decoy is a pretty handy one for fooling the enemy.

HQ
Game options. From left: show fighting soldiers, load/save game (na for demo), increase/decrease viewing area, general/status report, run home, clear, total war.

Fight/Flight
The fist icon denotes attack, the arrow move. Once you've chosen either, hold down the mouse button or joystick and drag it to where you want to attack or move to.

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DISK 154

Directory Opus 5.11

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What's a file manager?

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AMIGA
DISK 154
Directory Opus 5.11
FULL PROGRAM!
The Amiga's favourite file manager and Workbench replacement!
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The best for your Amiga every month.
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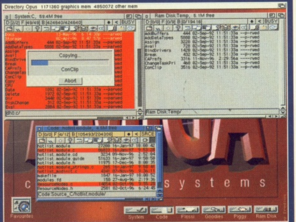


Directory Opus 1171360 graphics mem 4850072 other mem

System:C, 59.4M free

D:[2/2] F:[49/49] B:[424640/424640]

```
Docs                  13-May-96  6:14:38p ----arwed
Storage               02-Apr-96  8:47:57p ----arwed
AddBuffers        444 02-Sep-92 11:51:33a --parwed
AddDataTypes     5088 02-Sep-92 11:51:33a --parwed
Date             1092 02-Sep-92 11:51:33a --parwed
Delete           1972 02-Sep-92 11:51:33a --parwed
Dir              3440 02-Sep-92 11:51:33a --parwed
DiskChange        312 02-Sep-92 11:51:33a --parwed
Eval             2084 02-Sep-92 11:51:33a --parwed
```

dh0:c/

Copying...

ConClip

Abort

Ram Disk:Temp, 5.1M free

D:[0/0] F:[0/9] B:[0/19416]

```
AddBuffers        444 02-Sep-92 11:51:33a --p-rwed
AddDataTypes     5088 02-Sep-92 11:51:33a --p-rwed
Assign           3220 02-Sep-92 11:51:33a --p-rwed
Avail             728 02-Sep-92 11:51:33a --p-rwed
BindDrivers      1420 02-Sep-92 11:51:33a ----rwed
Break             432 02-Sep-92 11:51:33a --p-rwed
CAPrefs          3316 11-Nov-96  2:29:56a ----rwed
ChangeTaskPri     460 02-Sep-92 11:51:33a --p-rwed
ConClip          3516 02-Sep-92 11:51:33a --p-rwed
```

Ram Disk:Temp/

Code: hotlist.module, 4.5M free

D:[0/0] F:[4/12] B:[105493/204306]

```
hotlist.module             27200 16-Jan-97 10:00:42
hotlist.module.c           86833 16-Jan-97  9:53:28
hotlist.module.cd           3234 09-Nov-96  2:52:04
hotlist.module.guide       51633 16-Jan-97  9:50:50
hotlist.module.h           11975 17-Dec-96  8:00:35
hotlist.module_strings.c     265 16-Jan-97  9:50:41
hotlist_modinit.c           4341 07-Nov-96  9:36:11
makefile                    1647 16-Jan-97 10:00:52
modules.fd                   150 27-Aug-96  2:19:36
ResourceNodes.c            14054 02-Oct-96  9:55:25
ResourceNodes.h             2581 02-Oct-96  6:24:45
```

Code:Source_C/hotlist.module/

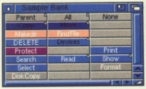
BUSY
BUSY
SRCE
c systems
Favourites
System
Code
Flossi
Goodies
Piggy
Ram Disk

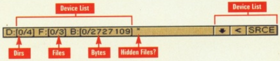
Be prepared to have your Amiga totally rejuvenated by Directory Opus 5.11. This incredibly powerful file manager has come on in leaps and bounds since version 4 and now has so much more to offer. It can even act as a total Workbench replacement.

Installation

Directory Opus 5 must be installed to a hard drive. You cannot run it from a floppy disk or the CD. To install, boot your Amiga as you normally do and wait for Workbench to load. Insert the cover disk or CD and double-click on the icon that appears for it on the Workbench screen. A window should appear with an icon called 'InstallOpus' which you should double-click on to begin the installation process. Do not attempt to install Directory Opus by hand, you must use the installer script. At some stage in the installation you will be given a choice about how you want Opus to be started when your machine boots. If you choose the 'Replace Workbench' option your c:LoadWB command will be renamed to c:LoadWB_Old and a new command will replace it which loads Opus. Holding down the shift key while booting will cause Workbench to load instead of Directory Opus, should you need it. Please note that you don't have to use Directory Opus 5 as a Workbench replacement if you don't want to.

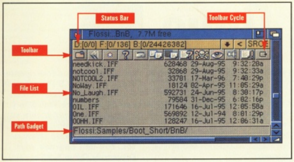
Directory Opus 5 is probably not what you are used to. Yes, you could set it up just like a 'traditional', Opus 4 style program, but you'd be wasting your time. Opus 5 is a new program and a new way of doing things. You must retrain


Sample Bank
Parent
All
None
Copy
Move
Makedir
FindFile
DELETE
Devices
Protect
Print
Search
Read
Show
Select
Format
DiskCopy


Device List
Device List
D:[0/4] F:[0/3] B:[0/2727109]
SRCE
Dirs
Files
Bytes
Hidden Files?

Converting Directory Opus 4 config files to the 5.11version

Directory Opus 5 can convert configuration files saved in Directory Opus 4 to the new format. To do this, select the 'Settings/Environment/Load...' menu item and show the file requester to your Opus 4 settings file. You will be given the option of which bits of the configuration you wish to bring into Opus 5. The basename which you are asked for will be used in the names of the new settings files so that you can differentiate them from other files.



```
D:[0/0] F:[0/136] B:[0/24426382]
needkick.IFF     628468 29-Aug-95  9:32:28a
notcool.IFF       32868 29-Aug-95  9:32:33a
NOTCOOL2.IFF      33701 17-Mar-96  7:40:29p
NoWay.IFF         18124 02-Apr-95 11:05:29a
No_Laugh.IFF     592731 24-Jun-95  8:30:17p
numbers           79584 31-Dec-95  6:02:16p
OIL.IFF          171646 16-Jul-95 12:05:58a
One.IFF          569892 12-Jul-94  8:01:29p
OOHH.IFF         128247 16-Jul-95 12:06:31a
Flossi:Samples/Boot_Short/BnB/
```

yourself to use it and it has a learning curve just like anything else. You can never please everyone, yet there seem to be many people who have a knee-jerk reaction to change and won't even try something new. Believe me, it's worth it, all of it.

Hide away what you were using before and only use Opus 5 for a couple of weeks. You may struggle with it at first but it's worth it.

This article aims to give you a quick introduction on how to use the basics of Directory Opus 5. The default configuration is described but while the configuration editors may be mentioned in places the details of their operations are not. We may look further into advanced topics in future tutorials, but there is no substitute for the 262 page ring-bound manual which you get when you buy Directory Opus 5.5, and the tutorials will almost certainly be targeted towards the new version and not 5.11.

Main window

First, let us look at the main Opus window. By default the main window opens as a backdrop window on the Workbench screen, but it can be made into a normal window and moved to its own screen. You should see icons for your hard disk and other devices in your system in the window, and it is possible to 'leave out' icons from any directory so that they are available directly on the main window. AppIcons added by other programs will also appear there, and all of these things work in more or less the same way that you are used to from using Workbench.

What will be new to you is the idea of program 'groups' which allow you to collect frequently used programs and data files in one easy to get to place. Anyone who has used Windows 3 on the PC will know the idea. You can have as many groups as you want, or none at all, but when you first use Opus there is a group called 'Favourites' pre-made for you to drag whatever you want into.

If you desire a pattern or picture on the window, load up the WBPattern preferences editor which came with Workbench and save the configuration out to a file. By default it is written to Env:sys/WBPattern.prefs on Workbench 3. You can then point Opus to this file in the Opus Environment editor which is available from the Settings menu, or by pressing 'Right-Amiga 4'. Opus 5.11 doesn't support pictures in icon mode listers (see below), but later versions do.

In Directory Opus 5.5 it is possible to hide any or all device icons, and in 5.51 you are able to define different areas of the screen for displaying different types of icon. Window snapshots are also saved separately to Workbench in newer versions of Opus, which avoids annoying clashes for those using both programs. Visually, Opus 5.5 improves on 5.11 by allowing you to remove the borders and labels from icons of your choosing, giving it a much sleeker look.

Listers

Listers are the most important element of Directory Opus 5. Their main job is to display the contents of directories and allow you to perform operations on programs and files within them.

To open a new lister you can either click on a drive's icon or use the 'Listers/New menu' item. Doing the latter will give you a device list from which you can select where to go. You may find it convenient to add a button to one of your button-banks which executes the 'DeviceList' command so that you have quicker access to new listers. You can also have buttons which execute the 'ScanDir' command with the name of a directory as the argument which open new listers to display certain directories. If you had Directory Opus 5.5 you could also double-click the main Opus window to open new listers.

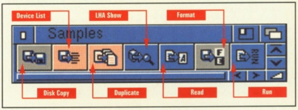
Get by with a little on-line help

Although it is no substitute for the 262 page manual you will get if you buy Directory Opus 5.5, the version of Directory Opus provided comes with a full on-line help system. This will explain the basics behind most elements of the program, including the configuration editors and pull-down menus. To get help on something put the mouse over it and press the 'Help' key. If you do this over the main Opus window you will be able to get a complete list of all of the internal commands of Opus.

For further help and advice regarding Opus 5, feel free to Email: leo.davidson@keble.oxford.ac.uk (valid until July 1998). There is also a Directory Opus 5 mailing list on the Internet. For updates, add-ons and other Opus related bits and pieces be sure to look on Aminet and at the Opus web pages maintained by GP Software and Leo Davidson respectively:

http://www.livewire.com.au/gpsoft/index.html

http://users.ox.ac.uk/~kebl0364



Button banks

Button banks are another important part of Directory Opus 5. They are floating windows of user-defined buttons similar to the toolbars attached to listers. Banks can either have text buttons or graphical buttons and a large set of images is provided for the latter. Buttons can have different functions for left, right, and middle mouse buttons, and alt-clicking them brings up the editor. You can edit several banks and buttons at the same time, giving you the ability to drag-n-drop between them. If you right-click in the title bar of a button bank a pop-up menu appears which duplicates most of the Buttons menu and also gives you the option of iconifying the bank to save space.

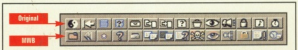
Pulldowns

Opus' pull down menus work the same way as in other programs, but you should make sure an Opus window is activated and that you are not pointing at something where the right mouse button will do something else like activate a button or scroll a lister.

The first five menus are used to control Opus and cannot be edited. On-line help is provided for all items in these menus and you can read it by opening the menu and pressing the Help key when pointing at the item in question. (Don't let go of the right mouse button until after you press Help.) If you find that this doesn't work and you are running some kind of menu replacement program, try disabling it, or press Help over the main Opus window and use the Index of the on-line help system to find what you want.

Stick with it

Please remember the most important thing: Opus 5 is new and innovative, and it's got to take a while getting used to. But you will get used to it, and once you do, you'll find using anything else will feel like being trapped in a box. ■



	Left Mouse	Right Mouse
	Device List	Cache List
	Parent	Root
	Select All	Deselect All
	Select	Toggle Select
	Make Dir	
	Copy	Copy As
	Move	Move As
	Rename	
	Delete	
	Show	
	Play	
	Comment	
	Protect	
	Date Stamp	

What's Hot in Opus 5.5

The current commercial release of Directory Opus has now reached 5.5. Here are some of the features and improvements that have come about since version 5.11.

- A new Icon Action Mode gives all the power of name mode Listers but with icons.
- Button banks and Listers need no longer be activated first in order to see right and middle mouse button clicks.
- More Lister pop-up menus to provide instant access to favourite commands.
- Workbench Replacement Mode has been enhanced.
- An integrated OpusFTP capability lets you access remote Internet sites directly from standard Opus Listers.
- Button banks can now be borderless with a sleek minimal drag-bar instead of a full window border.
- New Filetype-specific pop-up menus allow special menus for icons and files.
- Custom buttons have a pop-up menu giving access to an extended selection of commands.
- New independent HotKeys are now supported.
- New Scripts system allows functions to be executed upon most system events.
- Custom menus have been improved with multiple user menus with sub items.
- New Automatic Filetype Creator allows you to create and test Filetypes with ease.
- A font viewer is now included. Just double-click on a font to view it.
- Listers now have field titles, single-click re-sorting by fields, plus a new version field which reads the internal version information from each file.
- New colour remapping of button and icon images with support for Magic Workbench and similar systems.
- Cybergraphics RTG now supported.
- You can now selectively hide unwanted drive icons from the Opus main window.
- Enhanced clipboard support provides full cut, copy and paste in gadgets and file Listers.
- Listers are no longer blocked while busy - you can now resize, iconify, and scroll busy Listers.
- Icon and Lister snapshots are now stored separately from Workbench.
- Listers can now display a background picture or pattern.
- New internal Opus CLI allows you quickly test commands and ARexx scripts.

Directory Opus 5.51 should be available as a free update from version 5.5 sometime in February 1997 from Aminet, the GPSoftware Web Site (http://www.livewire.com.au/g psoft/index.html), or your local GP Software distributor. You can upgrade your Directory Opus 5.11 cover disk version to 5.5 from Wizard Developments. Call Wizard Developments on 01322 527800 for ordering details.

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- Multiple video display support (up to 6 screens at a time)
- Workbench Video driver, up to 256 colours in a window!
- On the fly resolution switching (System 7.5.0 or later)
- Ethertalk (requires Amiga Ethernet board)
- Appletalk with Emplant hardware
- Supports up to 14 AmigaDOS devices
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- Supports serial and parallel using any Amiga or compatible port
- Clipboard sharing (text) and built in file transfer/translation
- Custom FPU routines for high performance floating point operations
- Custom chunky to planar conversion for fastest possible graphics
- Supports AMAX, EMPLANT, MAC high density, PC 720K and PC high density disks.
- Direct SCSI and Serial access through Emplant hardware.
- Supports Akiko when used with CD-32 with SX-1/SX-32
- Supports 020 through 060 processors and 68881/2.
- OS2.x style guide compliant interface on public screen.

Owners of Emplant 1200 or Mac Lite can upgrade for halft he usual price by sending in their original disk.

Fusion	£ 49.95
Fusion Upgrade (from Emplant 1200 or Mac Lite)	£ 25.00

PCx

PCx is an all new (Software only)80x86 emulation for any 68020+ Amiga!

- Intel Pentium Processor(tm) (FPU supported if Amiga has FPU)
- PS/2 keyboard & mouse Bus mouse emulation
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- Native CD-ROM driver
- Native ASPI driver for direct SCSI access
- Native network driver for accessing AmigaDOS devices
- 100% hand optimised68K assembly language for best possible performance
- OS2.x+ compliant user interface
- CPU Transcription converts 80x86 code to native code 68K code

PCx	£ 49.95

ACE and Apple II

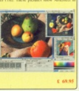
ACE is an Atari emulator for the Amiga. The Atari computer was created by the same man who created the Amiga, Jay Miner. Many programs developed for the Atari were gold medal winners in their categories.

APPLE II puts into your hands the ability to use many of the museum-quality applications written for the Apple II's. It offers you several models of emulation Apple II/II+, IIe, IIc, and IIgs. Many have cited the Apple II as one the first computers for personal use. It has been embraced by educators and admired by historians.

Requirements : Amiga 2.04 OS (V 37) or newer, 1Mb RAM, 68020 or better CPU and appropriate System ROMs
There are literally hundreds of games and utilities freely available on the internet/WWW for both emulations!

ACE and APPLE II	£ 19.95

ArtEffect unites painting and image processing with a particularly productive user interface. ArtEffect is not "just another" graphics program for the Amiga. It is not oriented towards the current "standard" programs on the Amiga, but rather to the classic programs for professional image processing such as Photoshop (TM) and for creative painting like Fractal Painter (TM). These pictures show ArtEffect in action.



Creative.
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ArtEffect	£ 69.95

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AsimCDFS 3.5	*Total CD-ROM package*	£ 49.95
MasterISO	*Amiga CD-Writing software*	£129.95
MasterISO + AsimCDFS		£149.95
ImageVision	*Multimedia authoring system + CD*	£ 49.95
World Construction Set	*(Scenery Generator)*	£119.95
World Construction Set 2	*(Advanced version)*	£249.95

AWeb-II is the most advanced Web Browser available for the Amiga. The HTML-2 standard is fully supported, including forms. Many HTML-3.2 features are also supported, like backgrounds and centreing. AWeb supports the use of proxies for HTTP, FTP, Gopher and Telnet. By using external programs, FTP, Mailto, Telnet and News can also be used. AWeb lets you load all images, delay all image loading, or load only clickable maps and delay other images. The 24-bit picture datatype (picture.dt V43) is supported. *AWeb-II requires : Workbench / Kickstart 3.0+, Approx.3 MB of hard disk space for software, 510 MB of free space for disk caching, 2 Mb RAM, 1 Mb chip RAM, A working TCP/IP stack (AmiTCP), appropriate GIF, JPEG, JFIF, 24bit datatypes.*

AWeb-II	£ 39.95

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Super CD-ROM 9

Say hello to number nine in the CU Amiga Magazine 100% full, quality guaranteed CD series.

Turbo Print 5 demo!
Super CD-ROM 9
Full Program!
Directory Opus 5.0
The ultimate file management solution and Workbench replacement FREE on this CD-ROM
Plus
Tiny Troops
The thinking man's Cannon Fodder
Exculsive playable demo!
PC Task 4 demo
Imagine Objects
The Party 96
MUI 3.7
MPeg Audio
PLUS
StrangersAGA
MagicMenu
Toyland Capers
STfax
GMPlay
Multitool
Utilities galore

Welcome to CUCD9 and the new look CUCD instruction page! CUCD9 can be booted from a CD32 or an A1200/4000 with adequate CD32 emulation. However, to allow you to use this CD just as well when you boot up from your own Workbench, we have included the INITCD icon, which will make various assign to allow software to run from the CD. It also initiates MUI and the NewIcons systems - so don't be surprised if the look of your Workbench suddenly changes. It is all temporary and can be removed by clicking on InitCD again.

We have gone to a lot of effort to make things work when you click on them. Click on a picture icon, and a viewer loads up and displays the image. Click on a mod and a mod-player pops up and plays the tune. As much as possible of the software will run from the CD as well. However, some things on the disc won't run when you click on them. There are several reasons for this. If it is a picture, or especially an animation, you may not have enough memory. If it is a demo, it may clash with your system. If it is a utility it may need to be installed, and so on. If a program doesn't activate, and no error message comes up to explain what the problem is, then read the documentation.

In the case of games and demos, the problem can get a little complex. Many of these are written in an OS illegal fashion, which means that they may not work on every set up. Run the bare minimum Workbench and try them. If this still doesn't work, boot with no startup sequence and activate the program from the Shell. You will need to be moderately proficient in AmigaDOS to do this.

The CD-ROM standard can be read by all computers. Files can be copied from the CD onto a PC formatted 720k floppy disk on either a Mac or a PC and then transferred over to your Amiga via CrossDOS.

On the disks

Directory Opus

This month's commercial utility is the amazing Directory Opus 5.11. This directory handling utility is a step away from the normal directory lister type, allowing multiple windows to be opened up and used rather than the traditional two. Check out our guide on pages 8 to 10 for full instructions.

Directory Opus needs to be installed onto your hard drive. We have not made it work from the CD because it really needs to be installed on your Workbench to operate properly. Just click on the install icon and follow the instructions - it is similar to the way the floppy version installs.

Oh you clever CD buying types! The floppy disk lot may have the same Opus as you have, but they don't have that Opus Extras directory! 6Mb of add-ons to turn your Opus into Opus plus. Read the individual documentation for further details.

Tiny Troops

OK! Here it is. You are in charge of some Klutes. They are like, aliens or something. Only someone has shrunk them to the size of ants. Your job is to lead them to victory against some other aliens. Someone has shrunk them too.

Anyway, you have this great battle to win, and the battlefield is someone's garden. You think I'm making this up, don't you? You couldn't make this up. Well someone could, obviously, but blame Vulcan, not me. Oh look, read all about it on page 6, OK? It's fun. You click on the icon to play it. That is all you need to know. Bother me no more.

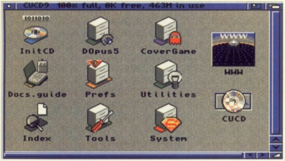
The audio tracks

Stick CUCD9 into a CD player and you'll see 4 tracks. Track 1 is the data, DON'T PLAY THIS! The other 3 tracks are readers' music.

Tracklist-

2 Suburbia, by Grant Percival. 2.19
3 Those were the days, by Paul Kempster. 3.23
4 The Great Bath, by Paul Kempster. 2.52

What's in your drawers?



In the root directory: The root directory of CUCD9 is set up like a Workbench disk, with all the standard directories - C, Devs, Libs, Fonts and so on. You will find that these directories are all nicely packed full of files you can use on your own Workbench if you want. There are plenty of Libraries, Fonts and so on. If you want to copy anything across to your own system, just use a directory utility such as oh ... Directory Opus 5.11 say ...

Covergame: Tiny Troops of course! Just click to play.

DOpus5: If you aren't sure what you'll find in this drawer, you aren't paying enough attention. Go to the bottom of the class.

System: Delitracker, Hippoplayer, GmPlay, Mui, NewIcons, ParNET, Flick, Viewtek, VirusZ and more. All the programs that are used to make your CUCD the most friendly, easy to use and attractive Amiga cover CD.

Tools: A fairly standard Workbench tools draw.

Prefs: A fairly standard Prefs drawer.

Utilities: Multiview, Clock, Toolalias and some NewIcon utils.

WWW: Demo versions of the major Web browsers - Aweb, Ibrowse and Voyager NG are all here. Use them to browse our on-CD web pages by clicking on the Icon which says Access_WWW_Ib (or _Aweb or V-NG) and you will be presented with a page which links you to either the information page for that browser, or the CUCD web site page, which has links to a collection of web sites for your perusal. Browse the web without a modem, and find out the latest news about Quickpak, the Draco and much more.

CUCD : Here's where you'll find the really good stuff.

Online: The massive Aminet indexes! Spend the rest of your life reading about software. Also V-NG, the new version of Voyager, possibly the Amiga's most powerful Browser, XPRZmodem, Amterm, Amtelnet and more.

CD-ROM: A collection of CD players for your general amusement. Also AmiCDFS2.

Graphics: The normal collection of Icons and Imagine objects for the visually oriented reader. Plus a collection of animations ready to watch.

Programming: Support for MUI developers, CybergraphX chunky display source, the C/Amigados programmer's tutorial ACE and much, much more.

Demos: A 24Mb demo, Overdacode, and a MASSIVE directory of the entries to The Party '96, the demo writers party. Sub directories here cover pics, mods and demos. See and hear some of the best pictures, demos and music Europe has to offer.

Information: The amazing CIA world fact book. Find out everything you've ever wanted to know about countries you never even heard of (wait a minute there is something wrong there, but I'm not 100% sure exactly what). Also the latest lib.guide.

Utilities: STFax, UltraAcc and UltraPayAdv business software. Also Mui 3.7, ClassAct latest update, Magic Menu, ReqTools, datatypes and more. Also including a demo of PC Task 4, the 486 PC emulator, for you to compare head to head with PCx on last month's disk.

Readers: The usual selection of reader's contributions. Pics, sound, games, utilities. It's a bit shorter this month because we didn't have time to sort through all the disks we have been sent, so if your contribution hasn't made it this month, don't despair, it may get on next month!

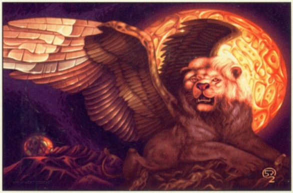
Games: Boulderdash, Frontal assault, Battleships, plus the usual Worms levels and Klondike card sets. Also Toyland Capers, the next in the reality engine written Seemore Doolittle games as featured on our January cover disk. This time Seemore flies around amongst some toys. Also Strangers AGA, a demo of a new fighting game from Vulcan.

Magazine: This is the drawer where you will find programs which link with magazine articles past, present, and even sometimes future. Wired World contains a couple of utilities referred to in this month's issue. Also AmigaNCP19, the excellent NCP networking protocols PSION use for there palmtops converted to the Amiga to allow you to link your Psion and your Amiga together, and some MPEG audio utilities.

Previews: A full demo version of TurboPrint 5.0. This excellent demo will drive your printer to within an inch of it's life. Try it now and your printer problems are solved.

Sound: Another foray into the world of Midi, with some utilities to play midi files through your Amiga's sound hardware. Also a few sample Midi files for you to try.

Anything else: That's it now go and play with your CD.



▲ This spectacular piece of work was one of the entries for Party '96. You can find it in the demo drawer. It is called Renaissance. Breathtaking or what?

If your CUCD does not load:

If your CD does not load contact Diskxpress on 01451 810788. If they advise that the CD is faulty send it along with a SAE to: CU Amiga Magazine Disk Returns, Diskxpress, 7 Willow Court, Bourton Industrial Park, Bourton on the water, Gloucestershire GL54 2HQ.

Please note that some CDs will not autoboot on systems other than CD32s, so try loading it from Workbench first.

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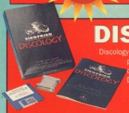

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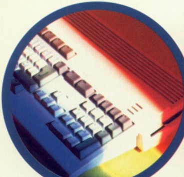


News

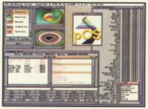
Next Generation Amiga About to be Released!

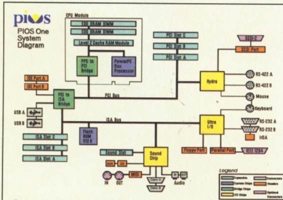
pOS and PIOS announce cooperation

PIOS have announced that the PIOS1 will be ready for shipping within the next couple of months. The PIOS1 is a PowerPC based computer which will ship at first with the 603 family of processors, running at 133 to 200MHz. These processors are comparable or superior to the best Pentiums. Currently quoted hardware specifications are:

- I/O controlled by the HYDRA control chip, with SCSI2 host adaptor, additional serial ports, CHRP compatibility and some main board I/O functions.
- Industry standard PCI and ISA busses, one PCI slot occupied with a graphics card.
- 16-bit audio input and output.
- CPU Module with 2 DIMM sockets and 1 COAST socket for Cache memory.

Although this hardware is more evolutionary than revolutionary, it brings Amiga-like systems into the 90s with a computer which is forward looking enough to be a very attractive computer for the power user. Although it doesn't have the specs of the amazing Phase5 A\Box, it is actually imminent. What is more, the base system is tentatively priced at a bargain US$1000.




pios
PIOS One System Diagram
CPU Module
EDO DRAM DIMM
EDO DRAM DIMM
Level 2 Cache RAM Module
PPC to PCI Bridge
PowerPC 6xx Processor
PCI Slot C
PCI Slot B
PCI Slot A
SCSI-2
SCSI Port
IDE Port A
IDE Port B
PCI to ISA Bridge
PCI Bus
Hydra
RS-422 A
RS-422 B
Mouse
Keyboard
USB A
USB B
ISA Bus
Ultra I/O
RS-232 A
RS-232 B
IrDA
Flash ROM 512 K
ISA Slot C
ISA Slot B
ISA Slot A
Sound Slot
Sound Chip
Floppy Port
Parallel Port
IEEE 1284
AUX
CD
MIDI
IN
OUT
Game A
Game B
Audio
Legend
Expansion
System Chips
Bridge Chips
I/O Chips
Connectors
Headers
Optional Connectors

▲ Here's an outline of what will make up PIOS1.

The PIOS1 will run Linux and BeOs, the BeBox operating system, but most interestingly it will run pOS, the AmigaDOS replacement operating system from ProDAD, German authors of Amiga software such as ClariSSA and Monument Titler. POS is said to be two thirds AmigaDOS compatible, with ANSI C and C++ code recompiling in a single pass with very minor modifications, so a lot of utility software could be converted at minimum effort. POS is an RTG system, which means that graphics and sound can be retargeted onto whatever card is plugged into the PCI slot. It will run on PPC and 680x0 systems, ensuring good cross platform compatibility.

We hope to get our hands on a PIOS1 as soon as possible to have a proper look at it. In the meantime, techie junkies can get some idea of what it's about from the schematic on the left. Keep it here for all the latest news on this exciting machine.

CU Amiga Presents TFX!

The legendary TFX will be on show exclusively at the CU Amiga Magazine stand during the forthcoming World of Amiga Show. Never before revealed to the public, the Amiga version of this next generation flight simulator was finished but then shelved indefinitely. Visitors to the show, which will take place over the 17th and 18th of May this year at London's Novotel Hotel, will finally be able to see and even play TFX. This could well be the only public viewing it ever gets, so make sure you don't miss it!

Other exhibitors at the show will include Nova Design (Image FX and Aladdin 4D), Blittersoft (with some new tower Amiga options), HiQ (Siamese retargetable graphics system), and Scala UK (multimedia display).

Direct Software will also be unveiling their new 'Amiga 7000'. at the show. This is based on an A1200 motherboard housed in a tower case with seven Zorro slots and two video slots. It comes with a 68060 CPU and 16Mb of Fast RAM, a Picasso IV graphics card, a 1Gb hard drive and fast CD-ROM drive and a 15 bit sound card is also planned.

Do you need any more reasons to attend the show? We don't think so.

TFX
TACTICAL FIGHTER EXPERIMENT

The Truth is out There... on CD-ROM

MAIN MENU
HIDDEN TRUTH
Ufo Information
Science fiction

Sadeness software, who made the infamous Women of the Web CD return to their 'netty haunts to bring us their latest production, Hidden Truths. This CD is a presentation of all the weirdest sites the Internet has to offer, from UFOs to serial killers. Just about every weird web site possible has been packed on this CD, which runs on the Amiga, Mac and PC.

Sadeness assure us that Hidden Truth will be more Amiga friendly than Women of the Web, and have put a lot of effort into designing the title pages and links of the document. We will review it as soon as we get it, and hope to have a preview on an upcoming CU cover CD.

Sadeness may be contacted on tel: 01263 722 169.

Amiga Ownership Latest

No doubt you'll be pleased to know that the months of waiting and waiting to hear what is happening with the Amiga and who the new owners will be should be over when this issue goes on sale.

February 28th 1997 is the date upon which the liquidators of Amiga Technologies are to announce the successful applicant for ownership of the Amiga.

QuikPak is the only applicant that has been vocal about its bid to take over the Amiga, and submitted a final proposal to the liquidators in January. Other rumoured applicants include Phase 5.

The closing date for bids was January 31st of this year, with all bids to be reviewed by the liquidators during February.

QuikPak, the Canadian company that carried out the manufacture of the Amiga Technologies A4000T, are confident that their bid will succeed and have stated that their vision of what the Amiga should offer is "affordable multi-tasking, multimedia computing for the family".

They also commented on fears that they would price the Amiga out of the home market: "Although it may have seemed that our focus was aimed at the video professional, we remain committed to reintroducing the entry level Amiga back to the marketplace with 1997 features".

As you read this the February 28th announcement date will have passed and the Amiga may well at last have a new home. Whether or not that actually happens rest assured we'll bring you bang up to date with events in the next issue of CU Amiga Magazine.

Games Chart

This month's games chart is based on sales over the past month and is sponsored by Direct Software.

No.	Title	Publisher
1.	Capital Punishment	Click Boom
2.	Super Skidmarks 2	Guildhall
3.	Sensi Soccer 96-97	Sensible
4.	Jet Strike	Rasputin
5.	Breathless	Guildhall
6.	UFO Unknown	Microprose
7.	Gloom Deluxe	Guildhall
8.	XP8	Effigy
9.	Bograts	Vulcan
10.	Jet Pilot	Vulcan

Into The Net

Weird Science have released a CD-ROM for Internetters called Into The Net. It claims to contain all the tools required for the beginner or the expert to do anything they want to do on the Internet – everything legal anyway.

The disk contains an ultra easy set up system for your TCP stack, making the most difficult thing facing a newcomer to the Web a lot easier. It is also meant to allow users without a hard drive to access the internet, but who has a CD-ROM and modem but no hard drive?

Weird Science have kindly given us 10 copies of this disk to give away. If you want a chance to win this disk, send postcard to our usual address, marked Into The Net, and answer the following questions.

1. What is the organ a spider uses to spin a web?

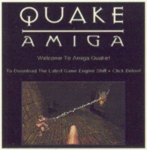
2. What was the name given to a Roman gladiator who fought with net and trident?

3. Which American science fiction author coined the phrase 'Cyberspace'?

As ever, there's gotta be rules. So only one entry per household please. No members of Emap Images0 or Weird Science may enter. The editor's decision is final and no correspondence will be entered into. And the closing date for all entries is 15/4/97. There that's your lot.

Stop Press! Quake Amiga!

A claimed port of the PC hit Quake is on the Net. The idea is that by copying the data files over from the PC version, you only need replace the executable with a version that runs on the Amiga. See Http://www.angeldos.demon.co.uk/index.html for more information.



News in brief

CU Amiga has moved

CU Amiga Magazine has a new address: CU Amiga Magazine, 37-39 Mill Harbour, Isle of Dogs, London E14 9TX. Phone and fax numbers and Email addresses have not altered. Check the masthead on the contents page for full details.

Image Studio

You asked for it: image processing software rated so highly on your wish list for cover disks according to our recent survey that we've wasted no time in bringing you one the best examples of the genre. Next month's cover disks and CD will include the full version of Image Studio (see page 80).

Survey results

We'll be bringing you the results of our reader survey in the next issue. Thanks to everyone who took time to fill in the survey. All that information goes a long way to helping us give you exactly what you want. We'll also be announcing the winner of the Psion Sienna palmtop, which will go to one lucky respondent picked at random from all the entries.

Imagine 5.0

Impulse have just released version 5.0 onto the Amiga. There had been some speculation that an Amiga version wouldn't be released, but the latest version is available at an amazing knock-down price of $100 US. If they don't get sufficient interest at this price point they won't make any further Amiga releases. Impulse are on 001-612-425-0557 outside the US or toll-free on 1-800-328-0184 in the States.

Turbo Print 5 upgrade

Wizard Developments (tel: 01322 527 800) are offering an upgrade from our Cover CD demo to the full Turbo Print 5 package for a reduced price, including a printed manual. This offer is open until April 30th 1997.

Stateside News

by Jason Compton: Jason Compton is Editor in Chief of Amiga Report Magazine

A bit of Oxxi lives on

Oxxi, a long-time developer of productivity and business software for the Amiga, faded into history over the past year or so. Luckily, not all of their work will disappear with them. Mr. Hardware Computers of New York has picked up the rights and development of Oxxi's relational database SuperBase4Pro and is inviting all SuperBase users worldwide to upgrade to their new SBase4Pro V1.3n.

The new developers have cleaned up some old bugs, are diligently working on future versions and are releasing this version to reassure users of the software that it has a future.

Upgrade prices range from US$60 for users of the old SuperBase personal software down to US$20 for users of the earlier SBase4 Pro 1.3 revisions. Mr. Hardware is not requiring proof of purchase, just the program's serial number as your ownership certification.

Mr. Hardware has been an Amiga-only company since 1985, and is currently the publisher and developer of other business and professional titles on the Amiga, most notably Retail Escort, which provides all the functions necessary to operate a retail operation on an single Amiga or a network. For more information tel: 001 516 234 8110 or hardware@li.net.

The Age of Sagittarius

Sagittarius Software has announced the immediate availability of Vulcan Software and 5th Dimension Licenseware software titles for the North American market.

Steve Ocepek, owner of Sagittarius, said that he felt there was a lack of support in the US for customers looking for affordable software, and so started working with 5th Dimension to distribute their product line to Amiga users.

Mr Ocepek has also begun importing Vulcan titles, including the recently popular JETPilot, Blobz, and Burnout AGA.

Mr Ocepek is hoping to expand Sagittarius' exposure in the market further, through aggressive promotion to rekindle interest in the North American games market.

Sagittarius has expressed some interest in attending the upcoming Amiga '97 show in St. Louis to allow Amiga users a crack at the new software and see what's on offer.

For more information, contact Sagittarius Software: 330-794-1889, sro@uakron.edu, http://www.ald.net/~pottery/Sagittarius.html.

Sagittarius
SOFTWARE

Keyboard Facelift for the Amiga

National Amiga and Archtech Computers of London, Canada are set to release the Insert104, a new PC keyboard adapter that should make replacing aging, worn out big-box Amiga keyboards a much less harrowing (and cheaper) task.

The Insert104 will allow you to hook up nearly any available PC clone keyboard, preferably one of the newer 'Win95' variety, to an Amiga 2000, 3000, or 4000. The layout is virtually the same when using a 104-key model, as the new 'Windows' keys are quite similar to the left and right Amiga keys we're used to.

No software drivers will be required – the device will be small, inconspicuous, and ready to use right out of the box.

At a projected price of under £20 UK, the Insert104 looks to be one of the easiest ways to replace an Amiga keyboard to hit the market in recent times.

We'll have more information on this product in an upcoming issue of CU Amiga Magazine so keep a look out.

National Amiga is one of the world's largest online Amiga dealers, with a shop in London, Ontario for walk-in sales as well. National Amiga can be contacted on tel: 519-858-8760 voice, fax: 519-858-8762, Web:www.nationalamiga.com on the Web and Email: gscott@nationalamiga.com

Atari emulator for the Amiga

If like me you think that the Atari game Pressure Cooker from Activision is perhaps the finest 8k of game ever produced, or perhaps you want to challenge a friend to a game of Combat but you've misplaced or blown up your Atari 2600, a trans-Atlantic team has provided for your happiness.

The Atari Corporation which finally passed away in 1996 was not without its accomplishments throughout its 20 plus year history, inventing and re-inventing the face of video games throughout the 70s and the early 80s. Thanks to the combined efforts of the UK and the USA, however, their efforts need not go unremembered.

Alex Hornby of Warwick, England developed an Atari 2600 game console emulator as his third-year project at university. His efforts were for Linux, however, not the Amiga. However, Matthew Stroup, from Sacramento, California saw Hornby's work and took up the gauntlet. The result is the v2600 emulator for AGA Amigas, now available through Aminet.

NewTekniques on the block

To fill the gap left by the abrupt cancellation of Video Toaster User and Lightwave Pro in early 1996, NewTek and Advanstar have co-sponsored the creation of a new magazine, NewTekniques, to serve the Video Toaster, Flyer, and LightWave market.

Scheduled for launch in the first half of 1997, the magazine creators say that it will cover all topics relevant to NewTek's product line and provide close, detailed coverage of NewTek developments and new releases.

At the time of press, subscriptions were said to cost $32. Current subscription plans are for nine issues: three quarterly issues for 1997 and six bi-monthly issues for 1998. Early subscribers, however, are promised a special (as yet unnamed) gift from NewTek.

For more information about NewTekniques, contact NewTekniques (and former Video Toaster User) editor Joe Tracy at jtracy@main.rosenet.net, or for subscription inquiries call 001 800 346 0085, or mail NewTekniques Magazine, Subscription Department, 131 W. First Street, Deuluth MN 55802-2065.

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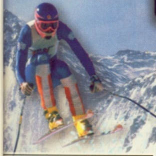

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ProGrab™ - Amiga Format **93% Gold Rating** and comments like... "ProGrab 24RT Plus is quite simply the digitiser to get", "Incredible value for money - no other digitiser offers so much for so little". When reviewing Vidi Amiga 24RT PRO, Amiga Format said "Save yourself £100 and buy the much superior Pro Grab"

AMIGA FORMAT GOLD

CU Amiga said ProGrab™ is... "Just the job for beginners and semi professionals on a tight budget" and "very hard to beat. For the money nothing can touch it"

CU AMIGA MAGAZINE

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The Best 50 Amiga Games Ever

After much disagreement we've finally come up with a list of our all time favourite Amiga games that are still available. And here they are.

50■ Rick Dangerous

Rick Dangerous is a platformer from a simpler age where you play Rick, a kind of cut price Indiana Jones. Try this one out for a jolt of spear dodging, boulder escaping, rope swinging platform satisfaction. How much you like this game may depend on how nostalgic you get for the old games but this is one of the few that is as good as you remember it being.

a/c NON AGA

49■ Heimdall 2

Isometric vikings, that's what you need. Norse puzzling and a bit of horn blowing are all part of the deal with this fascinating arcade adventure RPG kind of affair, in which you find out what it's like to roam the barren wastelands of the north with little else but an itchy goat skin to keep the cockles of your heart from freezing over.

a/c/d 💾 💿

48■ Railroad Tycoon

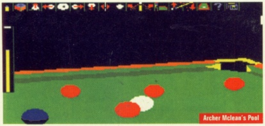
Sid Meier just squeezes a third game into the chart. No game for the fainthearted train spotter this, Railroad Tycoon is a game of cutthroat business management. As owner of a new railway line, you must try to develop as much of a monopoly as you can, balancing the need for fast passenger transport with the difficulties of getting goods from where they are made to where they are wanted. One of the best business management games going.

b/c/d 💾

47■ Wings

It could be argued that this ageing Cinemaware release is a little short in the gameplay department, that it's not the most technically advanced game, or that it's plain dull. But hang on a minute, strap yourself into that first world war bi-plane, take a sortie out over the Somme and that stuff doesn't seem to matter. What matters is returning to base, having lost Ginger and Squiffy to the guns of the Germans and trying to keep a tear from your eye as the sad accordion player heaves out another tune.

d NON AGA


Archer Mclean's Pool

46■ Damocles

Paul Woakes' follow up to the 8-bit classic Mercenary, this put you on an abandoned planet, searching a way to deal with the comet Damocles which is on a collision course. The 3D graphics look simplistic compared to today's offerings, but were fast and effective.

This was one of those free-form, you-haven't-played-much-like-this sort of games that just aren't written any more. There were whole worlds for you to travel around, and a fantastic sense of place.

a NON AGA

45■ James Pond2

An unusual combination of comedy and platform action - not as funny as the Monty Python's Flying Circus game, but a lot more playable. James Pond is a half fish, all British secret agent, who starred in a series of some of the most enjoyable platform games going. It's more the slow, thinking man's platformer of old than the fast moving Sega style action games of today, but if you like fish, James Pond has a license to grill.

a 💾 💿

44■ Archer Mclean's Pool

Sports games are often endorsed by famous personalities. It's supposed to lend them a degree of credibility. If the current big shot footballer/hockey player/hoop shooter puts his name to it, it must be good. Maybe there was some cost-cutting going on when this was released though, because rather than

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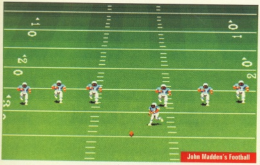

John Madden's Football

rope in a pool star to sign on the dotted line, they got the programmer to do it instead. Well he would say it's good, wouldn't he? It just so happens he's right. This is a top 3D pool game. So that's OK then.

a/c 💾

43■ John Madden's Football

Do you sit up with a gallon of coffee and a skipload of popcorn once a year to catch the Superbowl live from the States? If so, it can safely be assumed that you're a gridiron fan, in which case John Madden's Football is an essential purchase. No question about it. This is only one that's really got a grip on the whole thing, the plays, the stats, the shoulder pads and most of all, the gameplay, which is fast and hard like the real thing. A clever 3D viewing angle makes it look pretty snazzy too.

a/c 💾

42■ Banshee

Vertically scrolling shoot 'em ups came into fashion, then went out of fashion, then some years later Banshee appeared. If we said 1942, the more mature gamers amongst us would get the picture. If we said it's a vertically scrolling shoot 'em up in which you guide your plane through waves of enemies, blasting everything in your path, the rest of you should get the picture too. A good solid blast.

a/c 💿

41■ Monkey Island 1

In most cases where we've charted a game that has been a sequel or an update, we've not included the original, as the new version has surpassed the old. However, while Monkey Island 2 gets mention further up the charts, the original Monkey Island is a totally separate challenge in itself, and you really can't have one without the other. Not as graphically slick as the sequel, Monkey Island 1 nevertheless has plenty of adventuring meat on offer, with an overriding sense of humour that's a real rarity in adventure games.

a 💾

40■ Genesia

It looks like Populous but has more in common with Civilisation's technological progress. A brilliant mixture of playability and depth, and uniquely for games of this type actually had a specific quest to perform, to collect seven crystals together. Technological developments such as cannons and balloons help you search and conquer the world. Victories are on a capture the flag basis, but it is far too easy to sneak into heavily guarded territory and do this, letting the game down – otherwise would have been some places higher.

a 💾

39■ F15-II Strike Eagle

Another one from the Microprose stable, this flight sim is along very similar lines to F117a Nighthawk, although missions tend to be more combat oriented and a little less concerned with night flying and precision strikes.

The mission based system is excellent, with an endless range of objectives for you to hunt down and destroy. F15 is fast and full of action, if a little less refined than F117a.

a/b/c/d 💾

38■ Exile

Some games never die, they just come back with 'enhanced graphics' which seem to look worse than the originals. Not to worry, this 'thrust around a subterranean maze and shoot things' game still retains the playability of its 8-bit origins. If you've not seen it before, a first glance at it might suggest we've gone overboard on a double nostalgia trip here, but a few wiggles of the stick later and you'll be hooked.

b/d 💾

36■ Roadkill

Something must have gone a bit wrong with this one. Maybe it was released at the wrong time. Possibly it didn't get the press coverage it deserved, or maybe its moon was in Jupiter on the cusp... Whatever, it's a great little game that never seemed to get the applauds from the public it was due. A 2D top-down racer, it's not the most original of games, but it plays like a little puppy with a new ball with a bell in it. And you can shoot each other too, which is nice.

a/b/c/d 💿

35■ Desert Strike.

Another of those games which has done the circuit of platforms and been pretty good on all of them. Another isometric helicopter blaster, but not the fast 3D isometric style of Zeewolf 2, rather the normal scrolling background type.

Flying your helicopter around to pick up weapons and fuel, destroy the enemy, and rescue downed pilots and prisoners of your own side is what all helicopter games have in common; what keeps them apart is how well they play, and this one pays very well indeed.

a/b 💾

34■ Guardian

The popular description for this one is Defender in 3D. If you look at it logically that is quite true, in so much as you shoot the things in the air and defend the bits on the ground. But frankly, it's got sod all to do with Defender when it comes to actual gameplay. It's more like a kind of shoot 'em up crossed with a flight simulator. All the tricky bits and keyboard controls of your average flight sim have been stripped away, and the enemy presence has been cranked up to max, so it's full on loop-the-loop blasting action from beginning to end.

a/b/c 💿

37■ Beneath a Steel Sky

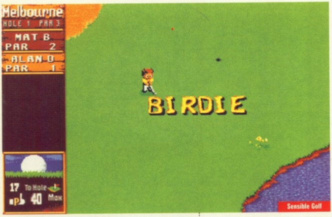
One of those spooky sci-fi graphic adventures, Beneath a Steel Sky is one of the few games that could realistically be described as an interactive movie, not because it has reels of digitised film clips or voice overs from posh actors, but thanks to the atmosphere built up by the unfolding story, ably illustrated by comic artist Dave Gibbons, well known for his Watchmen strips. You'll need patience and time, but give it those two and you get back an enchanting and enthralling way to spend those late nights.

a 💾

33■ F1 Grand Prix

Back into serious mode after the high flying excitement of Stunt Car Racer, Geoff Crammond gave us what has become the definitive Formula 1 simulation on the Amiga. Attention to detail and realism are the keys here. This is no Ridge Racer, more a flight simulation on wheels, going round tracks, in a racing car. With handy 'getting started' modes that even a blind gibbon could get on with, it gives you the chance to slip into its depths with transparent ease. Once you're there you'll be captivated for hours on end.

a/b 💾



Sensible Golf

32 Sensible Golf

Basing an Amiga game around something that came out on the Nintendo Gameboy in the early 90s doesn't sound like a shrewd move. However, Sensible Golf took much of the feel and style of the pocket-sized golf edition and brought it to our favourite computer with a few enhancements along the way (like colour graphics for a start). Using Sensible Software's trademark little people, it doesn't try to compete with the likes of PGA Tour, but still retains a certain pull that keeps you coming back.

a

31 Premier Manager 3

Once the great rival to Championship Manager for the footie manager crown, Premier doesn't seem to have had quite the lasting power. It's adherents loved the greater depth that this game has, and if you are into the financial aspects of management games, this is the one for you. You even have to negotiate sales of your pitch side advertisement hoardings. It was never as user friendly and well presented as Champ Manager though.

a

30 Slam Tilt

Pinball games, we just can't get enough of them. The thing is, once you've got a good pinball simulation engine, the sky is the limit. Or at least the number of disks the game comes on is the limit. Slam Tilt comes on five, has four tables and even manages to incorporate a multi-ball feature by snapping into super high resolution mode to keep the whole table visible while your multiple balls are in play. Wow!

a/b/c

P1:0200
P2:0550

Chaos Engine 2

29 UFO

A recent re-release by Guildhall leisure of a not so old Microprose game, UFO scored 93% in the budget games section in our February issue. A weird isometric shooting things/tactics sort of a game, you have to lead a secret group called x-com in a war against the alien invaders. An engrossing game with a lot of variety. Shooting, thinking and experimenting on the corpses of your foes. What more could you ask for?

a/b/c/d

28 Theme Park

It's the kind of game you'd expect to appear from one of those American Apple Mac software developers. You know, the type of people responsible for Coca Cola screen savers and other excuses to ask your boss for an extra 64Mb of RAM. However, Theme Park was actually produced by one of the UK's best home grown teams. Considering its an original twist on the strategy/business simulation/people management idea, maybe it's not that surprising that it came from Bullfrog. If you're expecting white knuckle thrills, you'll be disappointed.

However, if you want to chance your arm at developing your own Disney World it'll keep you entertained for months to come.

a/b/c

27 Kick off 2

A top-down football game by Dino Dini, and the inspiration for Sensible Soccer. Not as polished as Sensi, and less options, but some people still swear by it.

One truly excellent feature is playing two player co-operative mode, which allows two players to play on the same team and pass the ball around between them.

A spin-off, Kick Off Player Manager has what remains today about the most sophisticated tactics editor in any football game.

a

26 Powermonger

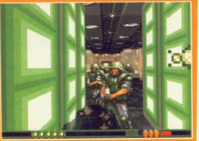
Bearing strong visual similarities to Populous, this game, also from Bullfrog, has a much more tactical basis to it. The game is all about warfare -

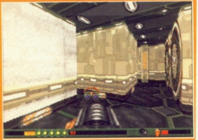
Super Skidmarks

P1:0500
07
P2:0800

Chaos Engine 2

25 Gloom Deluxe





The only Amiga Doom-alike that managed to incorporate real shoot 'em up gameplay into the format was Gloom, followed by the even better Gloom Deluxe. While the gameplay of other 3D maze games consists of peeping round a corner, picking off the baddies with a peashooter before walking down another empty corridor, Gloom gives you a tin hat, a semi-bullet proof jacket, a big fat plasma gun, and a big kick up the backside. So off you go, blasting away with your green plasma bolts at anything that dares to come in your way, even scooting around the levels at a fair old whack on the most modest Amiga.

c/d

leading a small band of fighters, you have to take over the local area through conquest and corruption, competing with other powermongers for world domination. An excellent attempt at bringing the war gaming genre into the mainstream. Try to get the Hit Squad edition with the World War 1 add on, it adds a lot to the game.

c 💾

24■ Another World

Typical isn't it. There you are, working late in the office one night, when something goes wrong with the cyclotron and you find yourself teleported into another world.

Another World is like nothing else in gaming. It the closest thing yet to a true 'interactive movie', with a totally intuitive control method, great graphics and a stunning atmosphere. Alas, it is far too short to provide enough of a challenge, but it really does put you in another world.

a 💾

23■ Super Skidmarks

First there was Sprint, an ancient monochrome coin-op from Atari. Then came Super Sprint and Championship Sprint, building on the basic top-down racing theme and adding a pseudo 3D slant on the proceedings.

Skidmarks and Super Skidmarks then turned up on the Amiga to take it all a stage further, turning that pseudo 3D slant into a full-on isometric 3D format with bumps, slippy muddy bits, and cows towing caravans. Well, what racing game is complete without some bovine mobile homes?

a/b/c/d 💾 💿

22■ Zeewolf2

Zeewolf2 is a fast and furious 3D-isometric helicopter blaster. Loosely based on an old Acorn Archimedes game called Zarch, renamed Virus on the Amiga, Zeewolf doesn't quite fit in with any other blaster / flight sim sort of game.

The control system is a vast improvement on Virus, and the range of options and weapons far more interesting. You can even link up to remotely controlled vehicles and attack the enemy base from the ground and the air.

c AGA

21■ Indy 500

Now we're talking speed. Indy 500 has it in buckets and somehow manages to bring the seat of the pants excitement of driving in the Indianapolis 500 to your Amiga. Despite the simplicity of its single oval track, the number of options, camera angles, and overall feel of the game is so intense and convincing that you really don't care that you're just going round and round in circles. This game tempted Nigel Mansell across the pond from Formula 1 to become the first ever 'rookie' to take the Indy crown (that's a lie actually but you get the point).

a/c 💾

20■ Populous

First and possibly greatest of the god games, Populous from Bullfrog places you as god over a small tribe. By carefully managing the affairs of your worshippers, you can improve their lot by providing them with more fertile ground and blessing their best warriors as knights, and can confound their enemies by inflicting them with floods and earthquakes. Populous 2 is actually a better game - but we unfortunately we couldn't locate a stockist.

b/c/d 💾

19■ Bubba and Stix

Man With a Stick: now that's what I like, a straight talking game title that gets to the point. Unfortunately Man With a Stick was only the working title, and the marketing types decided Bubba and Stix would be more appealing to the Amiga gaming community. Strangely enough, the game centres around a man with a stick. But not just any man, no, this one has a silly hat and wears nothing but a pair of dungarees. His stick isn't just a bit of wood either, it's his best friend and is pivotal in many of the puzzles sprinkled throughout this highly endearing platform game.

a/c 💾 💿

18■ Chaos Engine 2

In the beginning there was Gauntlet, and folks reckoned it the greatest game of all time. There have been all sort of games based on it since, but Chaos Engine 2 is the best. Lovely graphics in the Bitmap Brother's own inimitable style, decent sound, and best of all a game that neatly combines challenging thought with all action blasting. Brilliant in two player mode, great in one. The most recent game in our top 50, this got 90% in our January issue.

a/c 💾

17■ F117a NightHawk

Probably the best flight sim written for the Amiga by those kings of the flight sim genre, Microprose. The F117a is the stealth fighter which was used so famously in the gulf war. In this game you get to fly mission after mission, sneaking under radar surveillance to take out your assigned targets. The flight engine is smooth, there is plenty to blast, and missions seem to mean something unlike the arbitrary missions of many flight sims.

a/b/c/d 💾

16■ Pinball Fantasies

Making a computer play a satisfactory game of pinball is tricky thing. The Pinball Dreams/Fantasies/Illusions series manage it a lot better than most. You get a good sense of the bounce of the balls, the flippers feel good, the bouncers behave properly - this actually feels like pinball. Which of these gets you going is a matter of taste, of which one has the tables you like. Fantasies wins with us - especially the Stones and Bones table!

a/c 💿 AGA

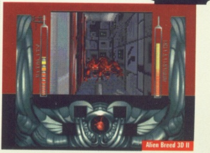
15■ Colonisation

Sid Meier's follow up to Civilisation, this game presents you with the challenge of becoming the dominant power in the Americas, having to deal (in whatever way you see fit) with both rival European powers and the locals, who vary from the poor, peaceful Tupi to the rich, warlike Aztecs. The depth of this game is huge - trade is complex and realistic, and strategy can be quite mind-bending. Games can take months to finish.

a/b/c 💾

14■ Alien Breed 3D II

Is that your heart beating, or is it the pulse of an alien hiding just around the next corner? Scary stuff, this Alien Breed, 3D, II, The Killing Grounds... Snappy title though, you must admit. Anyway, that band of opinion makers known simply as 'they' were going around saying it couldn't be done. A decent Doom-style game on the Amiga that is. Even though AB3DII didn't have the speed of others, such as Gloom, it



Alien Breed 3D II

12■ Civilization

Sid Meier, author of Civilization, has written such great games that he is considered to be a god by certain computer games playing tribes in Borneo. Civilisation is one of those games which keeps you at your computer for far too long when you first play it, and is tempting enough to make you want to come back again and again.

The scope of Civilisation is vast. You start as ruler of an ancient peoples that have barely learned to talk and make fires, and you try to lead them to glory as the greatest civilisation on the planet, eventually taking them to the stars. You can play the game in several different modes – you can concentrate on scientific development while keeping the peace with other civilisations, you can become a huge trade and exploration power, or you can build a huge army and conquer the world.

The range of games are limitless. One game you may find yourself way behind in the arms race, your charioteers facing tanks, the only solution to race to develop nuclear power, in another you may find your technology so far in advance of everyone else that your rapid transit system is being attacked by barbarians. Utterly engrossing.

a/b/c 💾

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HEROES
SQUAD

Cannon Fodder

Syndicate

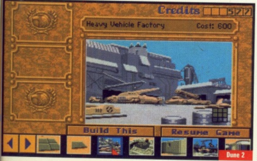
made up for it in atmosphere. Put it into two-player serial link up mode and things get rather sweaty, as anyone who joined in our death match competition at last year's World of Amiga Show will testify.

a/c NON AGA

13■ PGA European Tour

Everyone needs a decent golf game and this is about good as they get. You can take your fancy texture mapped console and PC attempts and do what you like with them – if you want golf with depth and accuracy, a game of skill and judgement with a few birds tweeting in the background, PGA European Tour is your man. Building on its very similar predecessor PGA Tour Golf, the European Tour adds refined graphics and textured, if not texture mapped, greens and fairways. Lovely.

a/b/c/d 💾



Dune 2

11■ Stunt Car Racer

Hold onto your lunch! Geoff Crammond cut his teeth on the 8-bit Formula 1 simulator Revs, but then threw caution to the wind and produced this masterpiece, in which the tracks are like rollercoasters and the cars are souped up dragsters with incredible suspension. Arriving at a time when 'solid' 3D was big news, it won us over then to this day has never been surpassed, or even more surprisingly, never cloned or copied on the Amiga or any other platform. Pure adrenalin.

a/d NON AGA

10■ Syndicate

Syndicate is Bullfrog's cyberpunk masterpiece. Like Cannon Fodder set in the city from Bladerunner, this game captures the spirit of cyberpunk very nicely. Taking the role of a multinational corporation fighting for world supremacy, you send cybernetically enhanced agents on missions to capture scientists, assassinate dangerous subversives, and so on. A variety of new technology can be researched, both new cybernetic enhancements and new weapons such a laser guns and force field belts. Bloody action with flamethrowers. Brilliant.

a/c 💾

9■ Championship Manager

When is Championship Manager 2 coming out? Addicts of this king of the footie manager games have been asking this question for well over a year now. This one eschewed the boring financial aspects of management for the excitement of tactics, buying and selling, and getting on with the actual game. I know someone who spent about a year solid playing this game. The best football manager game on any platform, except possibly Championship Manager 2.

a 💾

8■ F-29 Retaliator

So it's got a few bugs in it and it doesn't like AGA Amigas. It's also got the fastest, most exhilarating gameplay of any Amiga flight simulation. While other flight simulations were putting their efforts into ploughing a deep furrow with as much 'realism' as possible, they were also getting a bit tied up in flight technicalities and losing sight of the fact that they were supposed to be conveying the sense of shooting through the skies at super-sonic speeds. F-29 Retaliator put action firmly back at the top of the agenda, just where it should be.

c NON AGA

7■ Cannon Fodder

This game caused quite an uproar in the tabloid press because of the rather typically humourous take the Sensible lads had on the horrors of war. Your mission, if you choose to accept it, is to lead a hand picked group of small Sensi-style commandos on missions of gun shooting, grenade lobbing, rocket launching and skidoo driving madness across a whole range of levels, featuring deserts, jungles and icy wastes. One of the few games to really successfully integrate strategy and action.

a/c 💾

6■ Speedball 2

A bit of an oldie, but one which is always totally absorbing. You are in charge of the Speedball team Brutal Deluxe as they attempt to make their way to the top of the first division.

Speedball is a brutal future sport, rugby with cybernetics. There is no referee, so anything goes - one of the favourite tactics of experienced payers is to pass the ball to an oncoming defender, beat him to a pulp and take the ball back. There are powerups you can collect to activate effects such as freezing your opponents or stealing the ball, and there are coins you can collect to soup up your team after the match or buy in star players. Points are scored in the game by getting a goal, hitting the electrobounce, activating the 5 stars on the walls, or battering one of your opponents so much that they have to be stretchered off the pitch.

Speedball 2 does show its age in a lack of depth. There are only 18 star players to buy, and once season 2 is over, you have either won or lost. It's also a shame that all the players look alike, but it is still one of the best adrenaline pumpers around.

c NON AGA

5■ Dune 2

Loosely based around the Frank Herbert novels and the Dave Lynch film, Dune 2 is a brilliant point and click strategy game. You've probably heard of Command and Conquer, the biggest game on the PC at the moment – well this is basically the same game, written by the same programmers. Dune 2 has an awesome array of military units for you to purchase or develop as you harvest spice to pay for your constructions, build your facilities, and drive the forces of your opponents from the surface of the planet Arakkis.

c/d 💾

4■ XTR

XTR is not exactly the most realistic racing game on the Amiga, but it is certainly the most fun. Fast 3D graphics with a range of display options to suit the speed of your computer, and a host of tracks to race on. There are weapon pick ups on the course and coins which you

OctaMED SoundStudio MANUAL

OctaMED SoundStudio
TEIJO KINNUNEN
RAY BURT-FROST
Manual by
ED WILES

Last month CU Amiga Magazine exclusively brought you OctaMED SoundStudio, the Amiga's best music software package. Over the years, this incredibly powerful program has grown from a simple SoundTracker clone to a system that just cannot be matched by any other package on any platform. During that time it has sprouted new features at such a rate that it's been hard to keep up with each new development and to a newcomer the array of options can seem frighteningly wide. But rather than be held back by the power of the program, turn it to your advantage and you could be on your way to a sparkling musical future. At the very least you should be able to knock out a few good tunes.

To get the best from SoundStudio you should really get hold of the official printed manual. You'll find this an invaluable tutorial and reference source which covers just about everything you could ever need to know about the program.

You can obtain the manual via this offer for just £7 inclusive of post and packing.

This offer is being handled directly by RBF Software. Do not send anything in connection with this offer to CU Amiga Magazine. The address to send your order to is: RBF Software, 169 Dale Valley Road, Hollybrook, Southampton SO1 6QX. Tel/fax: 01703 785 680.

Also available on CD

Limited stocks of the original V1.0 CD-ROM release of OctaMED SoundStudio are still available, now at the bargain price of £8 inclusive of post and packing. The CD edition comes packed with samples and mods for use with the program to give you a big headstart on that road to musical success.

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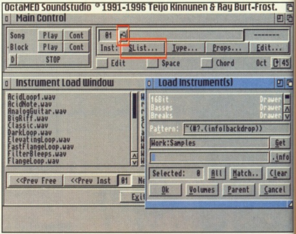


OctaMED Soundstudio ©1991-1996 Teijo Kinnunen & Ray Burt-Frost.

AcidLoop1.wav
AcidNote.wav
AnalogGuitar.wav
BigRiff.wav
Classic.wav
DarkLoop.wav
ElevatingLoop.wav
FastFlangeLoop.wav
FilterBleeps.wav
FlangeLoop.wav

16Bit Drawer
Basses Drawer
Breaks Drawer

Pattern: ~(#?.(info|backdrop))

Work:Samples

Selected: 0

Main Control
Song
Play
Cont
Block
Play
Cont
D
STOP
01

Inst:
SList...
Type...
Props...
Edit...
Edit
Space
Chord
Oct
45
Instrument Load Window
<<Prev Free
<<Prev Inst
01
Ne
Exit
Load Instrument(s)
Get
.info
All
Match..
Clear
Ok
Volumes
Parent
Cancel

can use to purchase weapon upgrades. Very similar to Mario Kart, and just as much fun!

a/b/c

3 Monkey Island 2

One of the greatest point and click adventure games of all time. A glossy production from Lucas Arts, the software division of George Lucas' multimedia empire, this game comes on 11 disks and contains plenty of beautifully drawn graphics and atmospheric sound.

Your quest takes you across the Spanish Main as you track down the items required for the voodoo ritual that you must perform to rid the world of the ghost pirate LeChuck. But there's quite a big surprise at the end!

a

2 SWOS '96-97

What can be said that hasn't already been said? A presentation that is very much its own, strong management options, and great gameplay. Started life as Sensible Soccer, and has evolved through a dozen or so forms to become Sensible World of Soccer '96-97, its final incarnation. Many thousands of players with individual stats, and no two games are alike. One major indie band blames SWOS for an album being released a year late! The best footie game on any platform.

c

SWOS '96-97

1 Worms -TDC

AIR STRIKE (8)
WORMS
WORMS

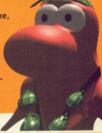
BEST GAME EVER!

It had to be didn't it? Those little critters have become part of the family, even if we seem to get so much satisfaction from blowing them up. The original Worms was one of the Amiga's biggest ever 'exports', spawning conversions to just about every other computer platform and console on the market.

What's even more satisfying is that none of these conversions could match the original, in fact nothing could match the original, until the arrival of The Directors Cut that is. New weapons and better graphics raised the stakes and improved on the core gameplay without fixing what wasn't broke.

Even though SWOS put up a very good fight for the number one slot, Worms TDC got the nod from everyone, football fans or not. Scratch the surface and you'll find the only bit of dexterity involved is a simple alignment of a sight and well timed stab of the fire button but it still has all the meat of a classic shoot 'em up. Maybe due to that very simplicity, it's also one of the few games you can guarantee that your non-computer gaming mates will happily play for hours on end. We could analyse it for ever, but what's the point? Just play it!

a/c



Win all 50 Games!

COMPO!

To go with The Best 50 Amiga Games Ever, here's The Best Competition Ever: you can win all 50 of the games featured in our chart! All you have to do is correctly answer the three questions below, send them off to us and pray that your postcard is picked at random from the CU Amiga Magazine 'hat'.

1. **Which programmer developed Damocles?**
2. **What was the working title of Bubba and Stix?**
3. **How many Sensible Software games are in this chart?**

Send your answers on a postcard to: Best Compo Ever, CU Amiga Magazine, 37-39 Mill Harbour, Isle of Dogs, London E14 9TX.

Rules: no multiple entries will be accepted, this competition is not open to employees of EMAP Images, the editor's decision is final. All entries to be received by 15/4/97.

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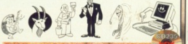

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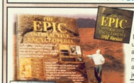
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EPIC INTERACTIVE ENCYCLOPEDIA 1997 Version

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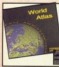

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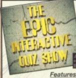

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Build Your Own Tower

PART 1

Yes, it's the feature you've all been waiting for: how to create your own tower in easy to follow steps as advised by the technical experts at CU Amiga Magazine.

8
FUJI RUP
RUP 9
FUJI RUP

When the A500 was released, single box/keyboard computers were the standard in the home. Only serious business machines and expensive Amiga 1000s had desktop cases. Why bother when you could fit everything you needed in a single box? The floppy drive had a huge 880k capacity and fitted neatly in the side of the case. Very few people wanted a hard drive and Commodore seemed happy to let third-party manufacturers fulfil the needs of that small minority.

When the A1200 came out, there were mutterings of discontent. Hard drives were becoming common and Commodore were seen to have made a blunder by including a 44 pin IDE hard drive interface, which had the advantage of allowing hard drives within the old, successful single desktop box, but had the disadvantage of taking laptop style hard drives, which were slow and very expensive.

When Escom rereleased the A1200 totally unchanged, the mutterings had become deep rumblings. Escom could have used their huge purchasing power to fit an Amiga 1200 into a tower case and given it an industry standard 40 way IDE connector. This would have meant that you wouldn't have any power supply problems. You could buy gigabyte hard drives for about a £100 and £35 CD-ROM drives would plug straight in. It would have added almost nothing to the price. Unfortunately, they didn't do this, leaving Amiga users a whole host of expansion problems. Until now.

More than half the letters to Q&A recently are from people who have problems that would disappear if they had a tower system, and since we mentioned running an article on the subject, we have been flooded with requests to get on and do it. So here it is.

WARNING

This project is designed to be as safe and easy as possible. If you follow the instructions carefully, you should have no problems. Unplug everything before you open it. **MAINS VOLTAGES CAN KILL.**

If you follow the instructions and use common sense, your computer will come to no harm. However, we can take no responsibility if you blow up your computer or yourself. If you see the above icon, take extra care!

The options

There are several ways you can go about this. The easiest is to use a PC tower case as a drive holder, connected to your Amiga 600 or 1200. Harder is moving the motherboard (the main circuit board) of your computer into a case and disposing of your old Amiga case altogether, a 'full conversion'. This can be a DIY job if you are prepared to do a bit of cutting and soldering, or if you want an easy life, you can opt for one of the commercial towers on the market.

An important point to take into consideration is future expansion. With the full tower option, the addition of a Zorro breakout board allows you to connect big box expansion cards to your A1200, effectively turning it into an A4000T. You can still add an accelerator such as Blizzard 1240t/erc, an amazingly cheap 40MHz '040 card which scored 95% when we tested it in January. The mini tower option gives less room for expansion, although there are still may options, which we will look into later.

How to choose a:

Tower case

A mini tower case should have enough drive bays but get a larger one if you want more. Go for a case which is CE marked and looks good to you. A 200w power supply should be plenty.

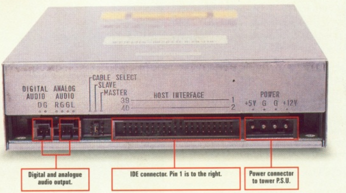
Hard drive

Watch carefully for pricing. Often a few extra pounds will get you masses more space. 3.5" IDE drives are very cheap these days.

CD-ROM drive

Four speed drives are good enough, but look for deals on faster ones. Make sure you buy a drive which is 100% ATAPI compatible; check our list or ask your local dealer.

Figure 1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IDE connector. Pin 1 is to the right.
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Over the next three articles we will be examining the options available, from the simplest to the most complex, looking at budget DIY and all-encompassing commercial options. This month we will be showing you how to connect a PC mini tower case to your A1200 or 600. This is the 'no solder' option; the construction is easier than putting together a flatpack bedside table from a furniture store and requires common sense but no specialised electrical knowledge.

What's in it for me?

Lots. Why do you even ask?

1. You can use standard 3.5" hard drives. You can get gigabyte drives for as little as £100.

2. You can plug in an ATAPI compatible CD-ROM drive. Two-speed CD drives are perfectly useable and cost about £20, and even 16-speed drives are available for under £100.

Ninety-five per cent of respondents to our recent survey said they wanted to buy CD versions of CU Amiga in the future... And if you consider that every month the CD version has the equivalent of about 25 years worth of floppy disk versions, this should be no surprise.

3. Your drives will draw power from the tower case's PSU, leaving the Amiga power supply to cope with just the computer, disk drives and accelerators.

4. Looks good. Your PC owning friends will stop laughing at you.

The problems ...

The biggest problem is the Amiga's non-standard IDE interface. Desktop PCs use a 40 pin IDE connector, whilst the Amiga sports a 44 pin connector, as used in laptops. The four extra pins are used to take power to the hard drive.

Oddly, the 44 pin connector is smaller than the 40 pin version, requiring a different gauge of cable. This means that the obvious solution of putting a 40 way connector on one end of a cable and a 44 way connector on the other is not easy; the wires on the cable would have to separated and carefully slotted into the connector, a tricky operation. The solution is to use a small circuit called a step-down board which links a 44 pin to a 40 pin connector.

On page 35 is an order form which will allow you to order this stepdown board with a three-way cable designed to plug straight into the Amiga IDE port, with one short length to allow a 2.5" drive to remain connected inside the Amiga if you want it, and a longer cable which can be led out of the side of your computer and into a tower.

The stepdown board will then accept industry standard 40 way cables to be used to connect IDE devices in the tower. Send the CU Amiga coupon to Stack to qualify for the special offer prices.

Unbuffered IDE

Several readers have contacted us lately worried that connecting extra devices to the unbuffered Amiga IDE interface is dangerous. It is true that an unbuffered interface is less reliable than a buffered one, but thousands of Amigans use this kind of set up, and I haven't heard of a single case of it causing damage. If you want the extra reliability and peace of mind, buy a buffered splitter. Contact Eyetech on 01642 713185.

Master or slave?

The IDE interface allows two peripherals to be plugged into it, usually two hard drives, or a hard drive and a CD-ROM drive. To do this, one component has to be specified as master, first in the chain, the other as slave. Your hard drive should come from the factory pre-jumpered as a master device.

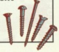
If there are no jumpers on the hard drive there are two possibilities. The first is that the drive will work fine as a master. The second, which is only the case with older drives, particularly 2.5" drives, is that it will not recognise a slave device. If this is the case, you will need a new drive. Use this opportunity to buy yourself a nice fast high capacity 3.5" drive, at

Continued overleaf ▶▶▶

README.FIRST!

There are a few things you should keep in mind when doing this project.

- **Older hard drives and some 2.5" hard drives will not work with a second device on the chain. They will need to be replaced.**
- **If you want to hack your motherboard into a case, wait until next month, don't start with this!**
- **If you are unsure a CD-ROM is 100% ATAPI compatible, ask the retailer, and explain that if it turns out not to be, you will have to return it.**
- **Check the article on connecting a CD-ROM drive in the December 1996 issue.**
- **You can only connect two devices to an IDE chain. There are however several devices on the market that allow you two split the IDE chain into two channels, such as the IDE-MUX from Ateo and the Alfa Quatro.**
- **Look out for details of further expansion possibilities in the next couple of issues, including the Catweazle, which allows PC floppy drives to be connected to the Amiga, the Ateo bus board (see this month's news) and Siamese system options.**



HOW much???

PC mini tower	£32
IDE 40 to 44-way and cable (see our special offer)	£17
IDE 40 way cable, 3 headers	£4.50
CD-ROM drive 2x	£18
CD-ROM drive 4x	£35
CD-ROM drive 8x	£65

These are prices these components are available for now. It always pays to look around. As you can see, a tower case with CD-ROM drive comes in at around £90.

today's prices these are very cheap.

The CD-ROM drive will have to be set as a slave device. This is usually a very simple process. Look at the back of your drive and you will see something like **figure 1.**

The jumper is a small metal clip, which when placed over one of the pairs of pins, tells the drive what to expect. In this case you can see that the jumper is placed over the SLAVE pin.

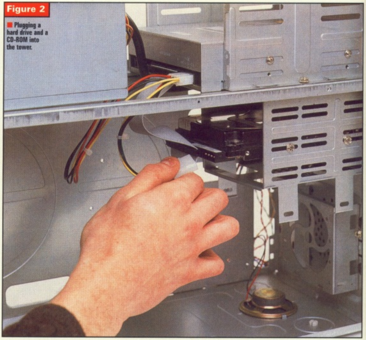
Making contact

It is important that you connect the IDE interface the right way around. Locate which end of the IDE interface on the motherboard is marked with a '1' (clue - the bottom) and make sure that the edge of the cable which connects to that also connects to the end of the stepdown board with a '1' marked by it on the underside.

Follow the same principle for the 40-way connector from the stepdown board to your hard drive. If there isn't a number marked on your hard drive, hold it with the back facing you.

The '1' is the right-hand side. Refer to **figure 1**. Normally one edge of the cable is red, to indicate that this is the edge of the cable which connects to pin 1.

Figure 2



Plugging a hard drive and a CD-ROM into the tower.

What software?

The second problem is the software one. Using multiple devices and connecting CD-ROM drives to your IDE interface will require installing some driver software into your system.

The best solution we have found is the shareware package Atapi Plug and Play, by Georg Campana, which is a breeze to install. We gave a fully functioning demo version away with our December issue of CU Amiga Magazine (available from our back issues department) to coincide with our article on CD on the cheap. Alternatively ask you favourite PD library for a copy. Check through the issue for some telephone numbers.

Compatible IDE CD-ROM drives

Chinon CDS-525I
Chinon CDS-545
Goldstar GLD R520B/R540B/R560
Mitsumi FX001DE /FX300
/FX400 /FX600
NEC CDR273
Samsung 8x
Sony 76E
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See our CD-ROM article in the December 1996 issue for more.

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Some useful contacts

These are dealers who have a good range of useful supplies for the tower case DIYers.

Maplin – general electronic supplies, 40 pin IDE cables.
Tel:01702 554000

Ateo Concepts – PC keyboard adaptor, IDE-MUX splitter.
Tel:01705 790211

Eyetech – cables, connectors, buffered interfaces.
Tel:01642 713185

Gasteiner – tower cases, general computer supplies.
Tel:0181 345 6000

Blittersoft – Catweazle, towers, Zorro boards.
Tel:01908 261488

HiQ – Siamese system, general supplies.
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Continued on page 35 ▶▶▶

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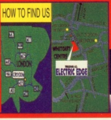

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The *CDPlus* is also available as a full kit but without CD mechanism - so you can fit your own - for £119.95

The CDPlus MiniTower & Desktop cases

(styles may vary)

Considering a PowerStation? **The CDPlus is now available with an alternative, 230W, CE-approved, PC MiniTower or Desktop case (which can also power your A1200) - *for only £25 extra*** (*Not on DT/MT)

SX32Mk2 & SX32Pro *Internal* Expansion for the CD32

The SX32 Pro is now shipping!

Make your CD32 into a high powered, portable Amiga!

The SX32Pro and SX32Mk2 add ...

- √ 33 or 50MHz '030 MMU CPU and FPU socket (33Mhz FPU socket only on the SX32Mk2)
- √ Simm socket for up to 64MB of 32 bit fast (60/70ns) RAM (up to 8MB fast (70ns) RAM on the SX32Mk2)
- √ Buffered IDE interface for internal 2.5" hard drive ***and*** second hard drive, SyQuest, Jaz *or even 8 speed CDROM* (optional extra on the SX32 Mk2)
- √ Sockets for RGB video (23 pin), VGA video (15 pin), Parallel port (25 pin), Serial port (25 pin), Floppy disk port (23 pin)
- √ Jumper-selectable for PC or Amiga keyboard input (external adapter on SX32Mk2)

... to the CD32's existing mouse, joystick, keyboard, audio, RF, composite video and SVHS ports.

What do the reviewers say?

Amiga User Int'l	*"95% - Definitely Recommended"*
Amiga Computing	*"90% - A Dream to Use."* *Blue Chip Award*
Amiga Format	*"93% - A Job Well Don* *Gold Award*

The SX32Pro

SX32Mk2 - *sale price* - £189.95

SX32Pro-50 - *sale price* - £349.95

Genuine Amiga 89-key compact keyboard *£34.95*

SX32 floppy, hard drives 20MB-1.1GB, RAM - *Please ring*

All models include full pictorial fitting instructions,WB3.0 & uti on CD and 'Click-and-Go' hard drive installation diskette

Just a few SX32 Combo packs left - SX32 Mk2 or Pro-50, CD32, keyboard, 4M memory, hard drive and enhanced power supply - at unbeatable prices!

AMIGA HEALTH WARNING

Please read this in your own interest

If you have recently fitted - or intend to fit - an IDE/ATAPI CDROM to your A1200 *(other than an Eyetec CDPlus unit)* **without** a buffered interface then your Amiga is in risk of serious damage arising in the futur The A1200 - unlike A4000's and PC's - has ***NO*** internal IDE buffering. On the A1200 the IDE interfa connects ***directly*** to the A1200 processor chip which itself has insufficient output to drive more than one ID ATAPI device (and only then on a short data cable) for any sustained time period. To the best of o knowledge the ***Eyetech CDPlus*** is the only A1200 ATAPI CDROM supplied with a buffered interface standard. We are now making this 4-device buffered interface available separately for use with other kits a D-I-Y CDROM installations. At only £39.95 it is a small price to pay to preserve your Amiga's health.

LOOK!

17"Microvitec Multiscan Monitor 15-64KHz, 50-120Hz
All Amiga/PC scan modes to 1280x1024, Autoswitching
£399.95!!!

Superb *Amiga* Internet packages *from* Eyetech

The following GetConnected packages are now available from Eyetech:

- √ ***Expert pack. Three months unlimited Internet***, access with ***1 MB*** of your own World Wide Web space, 60-minute continuous-use-restricted ***Web, FTP, IRC, news and email*** software, Internet reference book and ***24hr technical support*** from NETCOM. Designed for existing comms users - ***Just £39.95***
- √ ***Diskette A1200 pack. As Expert pack - plus 4MB*** memory expansion, ***V32 (14.4) modem*** (upgrade to V34(28.8Kbps) fax/data modem - £40.00), all cables, full installation instructions and complimentary 21MB ***hard disk*** with NETcomplete™ s/w for the Amiga preinstalled. This package is tailor made for diskette-only A1200 users - ***Just £169.95***
- √ ***High speed pack. As Expert pack - plusV34 (28.8) fax/data modem*** (upgrade to V34+(33.6Kbps) modem - £10.00), all cables and full installation instructions - ***Just £119.95***
- √ ***Other options available - Please ring for details***

AMIGA

Complete Software

- ✓ Customised Amiga software
- ✓ 'Click and go' installation
- ✓ All-inclusive *'GetConnected'* hardware/software/Internet bundles *only* from Eyetech

Complete Access

- ✓ Local telephone dial-up
- ✓ Nationwide coverage
- ✓ Quality network connectivity

Complete Support

- ✓ 24 hours a day
- ✓ 7 days a week
- ✓ Total subscriber service

Complete Value

- ✓ No start-up fee
- ✓ Unlimited usage
- ✓ Fixed monthly charge

NETCOM and NETCOMPLETE are trademarks of NETCOM Online Communication Services Inc.

BT ISDN LINE NOW ONLY £199!!!

The Eyetech ZorroII ISDN Adapter gives you high speed Web-browsing and video conferencing on your Amiga for *only £189.95*

Amiga Driver Software for Epson Colour Printers and Scanners

EnPrint for the Stylus ColourII/IIs/Pro/ ProXL/200/500/800/820/1500

- √ Unbelievable photographic quality output
- √ 'Preferences' & stand-alone printing program

ScanQuix for all Epson scanners

- √ 24 bit scanning with full range of editing options
- √ 'Scan-to-disk' option in Jpeg or IFF formats
- √ Stand-alone use or integrates with your Art package
- √ Also available for HP, Mustek and Artec scanners

Scanned printed output

EnPrint v2.1.3 printer driver - only	**£29.95**
ScanQuix v3.0 scanner s/w - only	**£79.95**

The Amazing Iomega *IDE* Zip Drive

Another first from Eyetech

- √ *Can be used in place of - or as well as*- the internal hard drive*
- √ *Use a different bootable cartridge for each application or family member*
- √ *Ideal for transferring multimedia data between Amigas and/or other platforms*
- √ ***Fits in any Amiga/desktop/minitower floppy drive bay or in external case***
- √ *The ideal way to backup your data*

The IDE Zip drive fitted in an A1200

Bare IDE Zip drive *(inc Eyetech ZipPrep tools)* **- Just £119.95**

100MB Zip cartridges just £14.95/1 or £39.95/3 (*A600/1200 buffered interface neede

A1200 *InstantDrive* Hard Disk Kits

InstantDrives are only available from Eyetech

"The fastest drive I have tested on any platform ...95%"
- David Taylor - Amiga Format February 1997

Important Note! 3.5" hard drives - even those described as *'Slim'* - are usual 1"/25mm high and ***will not*** fit in an A1200 without significant modifications t the case and metal shielding - which itself reduces the value of your compute All ***InstantDrives*** from Eyetech are less than 20mm high and fit perfectly.

- √ Rated ***99%*** - AUI November 1996, ***95%*** - Amiga Format February 1997
- √ No hole drilling, case clipping, or shield removal required
- √ All drives are brand new with a 2 year warranty and come Inclusive of full fitting kit and easy-to-follow pictorial instructions
- √ Ready-to-use with WB3.0 and over 45 top quality utilities installed and configured to the Toolsdaemon menu system.
- √ AV drives come with a fully licenced version of Optonica's MMe multimedia authoring software ***OR*** internet access software (shareware) preinstalled

2.1 GB AV £229.95 2.5 GB AV (3MB/s) - £249.95

D-I-Y and Bargain Corner

Hard-to-find parts for your Amiga project

Hard drive cables and cases	
2.5"-2.5" 44-way hard drive cables for A600 & A1200	£9.95
3.5" power & data cables for A600 & A1200	£14.95
3.5" full fitting kit for A600 & A1200 (contains ***everything***)	£24.95
3.5" external hard drive case	£19.95
3.5" removeable drive deluxe external HD case	£29.95
3 x 40-way IDE cable for 3.5" HD/CDROM ~85cm/2' 9"	£9.95
Custom 3 x 40 IDE cables to 1.5m/5' (enclose drawing)	£19.95
3.5" hard drive to 5.25" bay mounting adapters	£6.95
2.5" hard drive to 3.5" bay with 3.5" data/power cable adapters	£12.95
3.5" floppy/SyQuest/Zip drive to 5.25" bay mounting adapters	£6.95
40 pin m-f detachable data cable forexternal 3.5" HD/CDROM's	£12.95
Slimline external floppy/IDE SyQuest/IDE ZIP/IDE Jaz case	£12.95
CDROM cables, cases and interfaces	
IDE/ATAPI CDROM case with 40w PSU, audio & data connect's	£69.95
4-device buffered EIDE interface for A1200/A600	£39.95
4-device EIDE interface & cable assembly for A4000	£39.95
44-way to 44-way + 40-way unbuffered IDE interface/adapter	£19.95
Audio, video, modem and phone cables	
3.5mm stereo jack plug to 2 x phono plugs for CDROM	£6.95
CDROM standard 4 pin inverted T audio connector & phono plugs	£9.95
Phono plug x 2 to phono plug/socket x 2 audio mixer leads	£6.95
2 x phono socket to phono plug mixer adapters (Gold **£3.50**)	£2.50
Phono to coax RF/UHF aerial lead 1.8m/6'	£4.95
Stereo 2 x phono plug to 2 x phono plug 1.1m/4' (4.8m/16' **£9.95**)	£4.95
10m/30' telephone extension cables with 2 way phone adapter	£9.95
Power supplies and PC towers//desktops with integral psus	
Enhanced 145W metal cased PSU for A600/A1200/CD32/CDROM/ external HD (fit your old lead - instructions provided)	£39.95
200W Ready-to-Go A500/600/1200 psu w/ Amiga, mains cables	£59.95
Mini-tower or desktop case with 230W+ PSU, CD & HD bays	£59.95
4-pin M-F extension cable from PSU to external HD/CD 0.9m/3'	£9.95
23 pin m floppy drive connector to 4 pin HD/CDROM power plug	£9.95
A1200 internal cooling fan - dissipate that extra power!	£19.95
VGA 23-15 pin adapter for A500/600/1200 (most monitors)	£12.95
23-15 pin buffered VGA adapter (all Amigas/monitors)	£24.95
GG2+ board - use PC cards in big-box Amigas	£129.95
ChipUp 1 to 2MB Chip RAMupgrade for A500/A1500/A2000's	£99.95
A2000 keyboards (new) for A2000/3000/4000* (*adapter +£5)	£59.95
50MHz capable PGA FPU for SX32Pro-50 or accelerators	£59.95
Videomaster PCMCIA concurrent sound+25fps video digtiser	£69.95
A1200 Workbench 3.0 disks (5) with WB3.0 & user manuals	£29.95

Two Major New A1200 Expansion Products from Eyetech

***PortPlus* - high speed serial and parallel port expansion**

- √ *2 x **460Kbaud** buffered serial ports with low CPU overhead*
- √ *PC & Amiga compatible parallel port transferring up to **500K bytes/sec***
- √ *Optional high speed PC-Amiga & Amiga-Amiga **networking software***
- √ ***Leaves PCMCIA & trapdoor free** ; accelerator friendly & very easy to fit*

PortPlus* introductory price - *just £99.95!

***Quickcam* for the Amiga**

- √ *Use a low cost **PC Quickcam** to capture IFF images on your Amiga*
- √ ***Fully multitasking** - including window resizing even whilst digitising*
- √ *Compatible with **all Amigas** with standard Amiga printer port & WB1.3+*

Quickcam* hardware adapter and software - *only £39.95!

Apollo Accelerators - Unbeatable pricing

25MHz '030 with MMU & FPU -*A real bargain at £84.95*

50MHz Turbo '030 with MMU. *FPU option* *£139.95*

33MHz Turbo '040 with MMU & FPU. *(No A1200 tower needed -33% faster than an Amiga A4000/40)* ***Only £239.95***

40MHz Turbo '040 with MMU & FPU. *(No A1200 tower needed - 60% faster than an Amiga A4000/40)* ***Only £259.95***

50MHz Turbo '060 with MMU & FPU. *(No A1200 tower needed -3000% faster than a std Amiga A1200)* ***Only £449.95***

SCSI interface *(for all Turbo's)* *£79.95*

>>Special memory pricing with accelerator purchases<<

4MB - £19.95; 8MB - £34.95; 16MB - £69.95; 32MB - £149.95* (60/70*ns)

This Months Sale Specials

Data/fax modems with cables, psu	
- V32 14.4Kbps fax & data	£39.95
- V34 28.8Kbps data, 14.4 fax	£79.95
- V34+ 36.6Kbps data, 14.4 fax	£89.95
20- pin Zip RAM 4x1Mbit chips 60ns for A3000, Octogon, '386 board etc	£12.95
A1200 RAM boards (clock, FPU skt)	£34.95
with 4MB RAM	£54.95
with 8MB RAM	£69.95
Slim external floppy drives	£34.95
Stereo speakers (pair), amp & psu	£14.95
Metal CDROM case (no psu)	£5.95
Amiga microswitched mouse	£9.95
Amiga CDROM disks - our sel'n - 5 for	£20.00

Cocktel - from ProDAD

At Last - Professional Colour and Sound Videoconferencing - for all '030+ Amigas with HD & 6MB

- √ *Works with most Amiga sound & video digitisers*
- √ *Works with 28.8 modems, ISDN etc*
- √ *Fully multitasking, windowed display*
- √ ***Ring/write for further details***

Full Cocktel software - £99.95

High quality colour conferencing camera - only £159.95

2.5" InstantDrives for the A600, A1200, SX32 & SX32 Pro

21MB	Ideal for users of mainly CDROM software on the CDPlus and SX32	£29.9
344MB	A 2.5" drive ideal for the SX32Mk2 and for the A1200/A600	£129.9
540MB	A superb, superslim drive ideal for users of serious applications	£149.9
1.08GB	This top-of-the-range superslim drive is perfect for the SX32Pro	£229.9

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The Old Bank, 12 West Green,
Stokesley, N Yorks, TS9 5BB, UK

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Voted AUI Amiga Company of the Year 1996/7

EYETECH

Next Day delivery to EC and USA/Canad Worldwide deliveries in 2-7 days from receipt of faxed order and payment detai (eg SX32 next day to NYC £25.30)

UK m'land 2/next day insured del'y charge S/w, cables, buffered i/f £2.50/£3; 2.5" drive accelerators, mem boards £6/£7; 3.5" drive modems, psu's £8/£10; CDPlus £10/£12 ***Ring/fax/email for other delivery costs***

UK bank/building society cheques, Visa*, Mastercard*, Switch, Delta, Connect, Post Money orders accepted. * A 3% surcharge applicable to all credit card orders. Due to space limitations some of the spec given are indicitive only - please ring/write t further details. Please check prices, specs a availability before ordering. If ordering by po please include a contact phone no. Goods a not supplied on a trial basis. E&OE. All prices include VAT at 17.5%. VAT is not applicable to non-EC orders

Fitting the tower in ten easy steps

1. Open your Amiga. **MAKE SURE YOU UNPLUG IT FIRST.** Opening your computer is a simple matter of unplugging everything, turning it over, undoing the screws in the base, and carefully lifting the top half of the case off. The cases on A600s and A1200s have small catches to hold them in place. Lift the case carefully apart to avoid damaging them.

2. Locate the IDE interface **(see figure 3)** and unplug your hard drive from here (if you have one). The keyboard will have to be lifted out of the way as in the diagram. Be very careful not to pull out the keyboard connector.

3. Connect the three-way cable you bought using the order form on page 32 to the IDE connector on your motherboard **(see figure 4)**. Ensure that the long arm of the cable is to your left, reaching outside the Amiga as in the diagram. Plug the middle connector carefully down making sure that it is firmly seated on the pins.

4. If your drive is a 2.5" internal drive, reconnect it to the computer via the spare 44-way connector on the three-way cable to the right of the motherboard interface.

5. Close the case carefully. If you do not tighten the screws at that side of the case too much, you should find that the ribbon connector leads fairly comfortably between the two halves. Alternatively, cut a small notch in the lower half of the case to allow the lead to pass through with the case tightly closed.

6. Open up your PC mini tower case. Place a 3.5" hard drive and/or a CD-ROM drive with the jumpers properly set (see separate boxout) into the case, removing a blanking plate for the CD-ROM. Once the case is open, you will see how these fit, it is all very obvious. Small screws, usually supplied with the case, can be screwed into the threads in the side of the CD-ROM drive or hard drive to keep them in place.

7. Inside the tower case you will find a power supply with a bundle of multi-coloured cables sticking out from them. Most of these will lead into four-way plugs of two sizes, small for floppy disks, the larger for hard drives. In almost all cases these have a red, a yellow and two black cables. Connect one of the larger power connectors to each device. They only fit one way around. Connect a the drives with a standard 40 way IDE cable **(see figure 2).** If you are connecting two components, a three headed, 40 way IDE cable should be available for a few quid from your high street computer store.

8. Lead the end of the cable from your Amiga into the tower case. You can put it through one of the pre-cut holes in the rear of the tower case or you can cut a small notch in the side of the case to let the lead through. The best way to do this is to slide the cover to the case partially back on, figure out where the slot should go, and mark it with a pencil. Then remove the case cover, and saw the slot with a hacksaw. You may just want to make to small cuts into the bottom of the case just over 2"/5cm apart and 1cm/0.5" deep. You can then bend the flap you have cut into the side with a pair of pliers to make the slot. If you connect via the back you will find the tower and the Amiga rather closely tied together; cutting the slot is a much neater option.

9. Connect the stepdown board to the cables coming out of the tower case and the Amiga. It is important to get the connections the right way around. See the paragraph on making contact for how to do this. It won't work if you get this stage wrong. Place the stepdown board inside the case. The pins on the stepdown board must not be allowed to come into contact with the metal of your mini tower case. Mount the stepdown board onto a piece of card using sticky pad, then wrap it tightly with a strip of insulating tape. The fix the whole thing to your case with more sticky pads.

10. Plug in the tower, switch on, switch on your Amiga. Install the Atapi software and off you go! ■

Andrew Korn

Figure 3

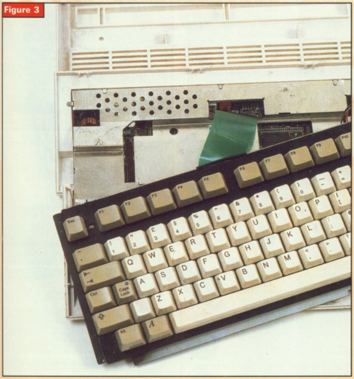
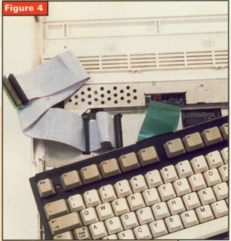


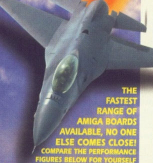
Figure 4



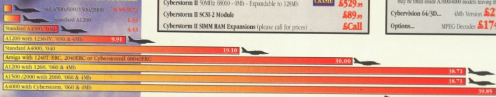
Next month

- **Powering your Amiga from the tower**
- **Connecting the power LED**
- **Getting serious: moving your motherboard into the case**
- **Commercial cases**

The World's FASTEST and... now the BEST VALUE too!



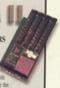
THE FASTEST RANGE OF AMIGA BOARDS AVAILABLE, NO ONE ELSE COMES CLOSE!
COMPARE THE PERFORMANCE FIGURES BELOW FOR YOURSELF



Comparative MIPS performance figures measured using SysInfo. Each board had the appropriate SIMM fitted (required to activate accelerator).

68040 VERSION CAN BE EXPANDED TO A FULL 68060

CYBERSTORM II



AMIGA 68040ERC and 68060 ACCELERATORS

Now you can choose between the 68040/40ERC Cyberstorm II or the ultra powerful 68060 version. When you fit a Cyberstorm II 68060 Accelerator to your A3000, A3000T, A4000 or A4000T you can, for example, render a graphic with Imagine 2.0 software in just 2.4mins... Compare that with a massive 10.34 mins on a standard A4000 '040/25! With no jumpers both Cyberstorm IIs are fully plug and play and A4000 users can choose the option of a SCSI-2 module (A3000 users already have SCSI built into their Amiga hardware).

- Up to 128Mb of standard SIMMs can be installed and you can even transfer the 72Pin SIMMS from your Amiga A4000 straight onto your new Cyberstorm.
- Optional SCSI-2 module available
- If your budget currently only covers the cost of a Cyberstorm II 68040ERC, you can always upgrade later to the full 68060 processor for extra power.

PRICE CRASH!

Cyberstorm II 40MHz 68040ERC - 0Mb - Expandable to 128Mb	£329.95
Cyberstorm II 50MHz 68060 - 0Mb - Expandable to 128Mb	£529.95
Cyberstorm II SCSI-2 Module	£89.95
Cyberstorm II SIMM RAM Expansions (please call for prices)	£Call

NEW 3D VERSION!

CYBERVISION 64 3D

64–BIT ENGINE A2000/3000/4000 (T Series) 3D Version 24-BIT COLOUR ACCELERATED GRAPHICS CARD.

For all Zorro-II/III Amigas & Tower System A1200s with Zorro-II backplanes. The core of this great board is the NEW VIRGE GRAPHICS CHIP from S3. With 3D capabilities it's able to process complex 3D functions in hardware (eg. shaded/textured surfaces) with Trilinear Filtering and Shading/Fogging for super realistic Real Tone 3D Rendering. When used with CyberGraphX 3D Library, Cybervision 64/3D can even offer a broad range of 3D facilities for any software developer. OPTIONAL EXPANSIONS...

- MPEG Decoder - added to the Feature Connector to provide real time MPEG audio and video decoding at full size custom screens or, in Workbench windows (HQ display using 16/24 Bit modes from CyberGraphX Workbench). Stereo audio output is provided via the supplied dedicated line output jack. Upgrade to a Cybervision 64/3D and MPEG bundle (from previous Cybervision 64) for a SPECIAL LOW PRICE! - Call for full details now!
- Monitor Switcher - with integrated scan line doubler. Designed to fit into the Amiga slot this gives automatic switch over from the standard Amiga signal to Cybervision 64/3D's output. Both cards may be fitted inside A3000/4000 models leaving three Zorro-III slots free.

Cybervision 64/3D... 4Mb Version £219.95 HUGE PRICE REDUCTION!

Options... MPEG Decoder £174.95 Monitor Switcher £84.95

BLIZZARD 1230-IV, 1240-T/ERC & 1260 ACCELERATOR BOARD FEATURES...

- May be disabled with Simple Keystroke on boot up - For Full Games compatibility, even badly programed/older Software!
- Battery Backed Self Recharge Real Time Clock
- High Performance Expansion with Full 32-Bit wide DMA
- Easy Trapdoor Installation - no modifications required (1240T/ERC fits in Tower)
- 1230-IV features PGA FPU Socket allowing Optional 50MHz, 68882 FPU

1230-IV

1230-IV BLIZZARD 030

A1200 TURBO ACCELERATOR
and MMU - 50MHz 68030
0Mb Standard, Exp. to 128/256Mb
9.91MIPS with 60 Nanosecond SIMM fitted

Blizzard 1230 MkIV Turbo Accelerator Memory Board

The highest performing 68030 accelerator available for your A1200! With its 50MHz 68030 and MMU, the 1230-IV offers BETTER PERFORMANCE at a LOWER PRICE! With a SysInfo rating of 9.91 (using a 60 Nanosecond SIMM) you can see the 1230-IV is very fast... a performance gain of up to 500% is achieved! Via its Fast Expansion Bus, an optional SCSI-2 Controller module can be easily fitted. An industry standard SIMM socket provides for up to 128Mb of auto-configuring 32-Bit FAST RAM (or up to 256Mb with the SCSI-2 option using its extra SIMM socket).

EASY TRAPDOOR INSTALLATION
No modification necessary.
Reliable low heat output.

PRICE CRASH!

1230-IV Turbo 50MHz 68030 & MMU 0Mb, 32-Bit Fast RAM Expandable to 128/256Mb	£149.95
Fast 60 Nanosecond SIMM RAM Expansions 32-Bit, 72 pin (*Call for prices*)	£Call
Motorola Maths Co-processor 68882 PGA type FPU, 50MHz	£Call

1240T/ERC

1240 T/ERC BLIZZARD 040

NEW

A1200T* TURBO ACCELERATOR
and MMU/FPU for *TOWER SYSTEMS
40MHz 68040 - 0Mb Std, Exp. to 128/256Mb
30MIPS with 60 Nanosecond SIMM fitted

Blizzard 1240T/ERC Turbo Accelerator Memory Board

A super LOW COST A1200 Turbo Accelerator Board, ideal for housing on any *Tower System A1200 main board (mechanical dimensions, high power consumption and heat emission require an active cooling cap - we therefore do not recommend fitting to standard A1200's without the appropriate modifications etc.). The "ERC" Processors used on these boards are recycled and vigorously tested 68040 CPUs operating at 40MHz with MMU/FPU - an excellent guaranteed and competitively priced alternative. Available options such as the SCSI-IV Kit and RAM are shared with the Blizzard 1230-IV and 1260.

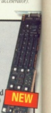
PRICE CRASH!

1240T/ERC Turbo 40MHz 68040 & MMU/FPU
0Mb, 32-Bit Fast RAM - Expandable to 128/256Mb £249.95

Can be expanded to FULL 68060

2040ERC

2040 ERC BLIZZARD 040



A1500/2000 TURBO ACCELERATOR
and MMU/FPU - 40MHz 68040
0Mb Standard, Expandable to 128Mb
30MIPS with 60 Nanosecond SIMM fitted

Blizzard 2040ERC Turbo Accelerator Memory Board

NEW

The Blizzard 2040ERC is a super new LOW COST board which offers A2000 owners the opportunity to upgrade to the same performance as our Blizzard 1240T/ERC board. Users will then be able to enjoy full A4000/040 power as well as take advantage of the built in SCSI-2 interface.

The "ERC" Processors used on these boards are recycled and vigorously tested 68040 CPUs operating at 40MHz with MMU/FPU - an excellent guaranteed and competitively priced alternative.

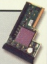
PRICE CRASH!

2040ERC Turbo 40MHz 68040 & MMU/FPU
0Mb, 32-Bit Fast RAM - Expandable to 128Mb £309.95

Can be expanded to FULL 68060

1260

1260 BLIZZARD 060



A1200 TURBO ACCELERATOR
and MMU/FPU - 50MHz 68060
0Mb Standard, Expandable to 64/192Mb
38.71MIPS with Single Sided 60/70 Nanosecond SIMM

The Blizzard 1260 Turbo Accelerator Memory Board

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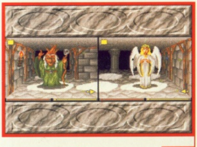
ScreenScene

Reasons to be cheerful this month: the super vintage games feature, Tony Crowther interview, Master Axe, Kargon, Testament, Tiny Troops and a cracking new tips bonanza.



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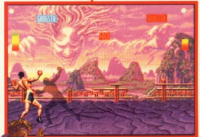
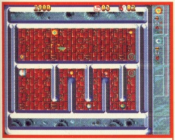
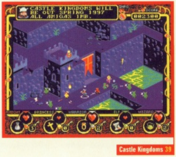


Master Axe 44



Marbelous 38



CASTLE KINGDOMS WILL BE OUT SPRING 1997 ALL AMIGAS 1MB.

Castle Kingdoms 39

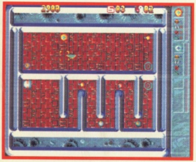
Previews

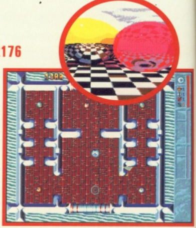
Marbelous

■ Due for release: March ■ Developer: Islona & APCTCP ✆ 01793 432176

It's often been said that as far as puzzle games go, the more simple they are, the better they are. This is obviously a view that's been taken with Marbelous; just one of a batch of games on their way from Swindon-based Islona. Marbelous reminds me more of Vulcan's Time Keepers than any of the more obvious comparisons, although to suggest that Marbelous has an original bone in its body would be a lie. Still, we don't care about originality, just as long as we end up with a decent game, eh? The premise behind Marbelous is basic. Each level follows the progress of a rolling marble that, while not directly under your control, can have its path affected by the player laying tiles in its path. All you can do is cause the ball to pause momentarily or change direction, but it's with these simple abilities that you must plot the most hazard-free course for the marble to take as it attempts to collect a number of power gems and then make it to the exit in one piece. Hitting a wall or colliding with an electrified barrier costs you a life and sends you back to the beginning. Simple stuff, non? However, the learning curve doesn't take long to transform into a roller coaster, and before you know it you're called upon to activate switches that release extra marbles elsewhere on the screen and then attempt to control both at the same time! The demo I played was both impressive in presentational (crisp looks and smart sound) and addictive gameplay-wise, and at eight quid a shout, puzzle fans should keep an eye open for it soon. ■

MB



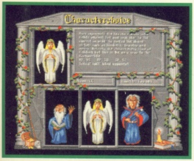


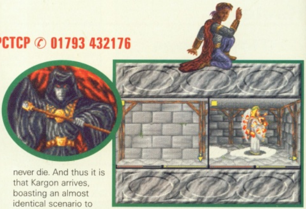
Kargon

■ Due for release: March ■ Developer: Islona & APCTCP ✆ 01793 432176

The very first day I started work on The One (oh you remember… pants, arse, that sort of thing) David Upchurch told me I'd be "handling the PD section from now on". He handed me this duty with a glint in his eye because he regarded it as a tedious task; sifting through billions of Shoot 'Em Up Construction Kit creations just in case there was a decent game to put on the cover disk. However, I always looked forward to sitting down with a big pile of disks, wondering whether the next offering might be a Worms, or a Gloom. And why the nostalgia trip? Well, one of the last PD games I ever looked at was called something like Wizard Wars and was a split screen, first-person perspective, two-player Doom-like combat game. You were both wizards with a selection of spells, tasked to hunt down the other player and exterminate them. And now comes Kargon …Yes, time has passed but good ideas never die. And thus it is that Kargon arrives, boasting an almost identical scenario to the aforementioned PD game, only with more characters, more spells, and up to four players. As you'd expect from a game that carries a £24.99 price tag, the graphics are somewhat more impressive than the 'pound-a-go' PD disks of old, and the feel of the game is more polished and professional. The action takes place across a number of dungeons, and though you initially spend time collecting powers and potions, it's not long before you meet some of the non-human characters and monsters wandering the tombs and, eventually, the human characters you're up against. Look out for more next month, because this sounds pretty funky! ■

MB



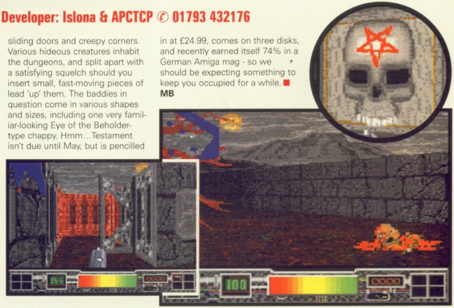


Testament

■ **Due for release: May** ■ **Developer: Islona & APCTCP** ✆ **01793 432176**

You just can't stop those Islona folks! Having already taken over this preview page and presented one Doom-inspired game for appraisal, we now have a COMPLETE rip-off offered upon our grey and keyboard-like plates. Clever comparisons aside, Testament is pure Doom; even going as far as to feature a floating weapon that attempts to move in a 'walking' fashion. It's a battle against the living dead as innumerable flesh-eating zombies rise from their resting places with just one aim - to eat your brains. With relish. And mustard. Probably. The plot doesn't thicken much further than that to be honest, and as such it's really just a case of collecting as much weaponry and ammunition as possible and then getting stuck in. The action moves between outside areas to dungeon-like buildings, complete with sliding doors and creepy corners. Various hideous creatures inhabit the dungeons, and split apart with a satisfying squelch should you insert small, fast-moving pieces of lead 'up' them. The baddies in question come in various shapes and sizes, including one very familiar-looking Eye of the Beholder-type chappy. Hmm…Testament isn't due until May, but is pencilled in at £24.99, comes on three disks, and recently earned itself 74% in a German Amiga mag - so we should be expecting something to keep you occupied for a while. ■

MB



Castle Kingdoms

■ **Due for release: Spring** ■ **Developer: Mutation Software** ✆ **01705 672616**

There was a time (and I'm talking WAY back when Spectrums were thought to be the work of the devil) when every game's plot featured some object that had been "split into four pieces and scattered across the land".

The moment you read that line you could generally bet your bum that somewhere in the following text would be the words… "Your task is to locate the four pieces of the talisman/amulet/crystal/sausage and heal the broken land." And yet, sadly, t'would seem as though those days are gone. Or are they…

Yes, it's three cheers for Mutation Software, for 'tis they who've dug up that age-old story line and thrust it into the 90s via their forthcoming fantasy adventure, Castle Kingdoms.

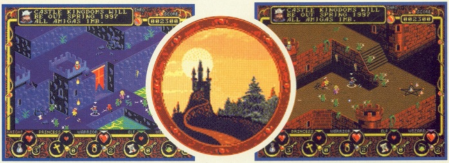
Billed as a game of battle, magic and adventure,Castle Kingdoms tasks you to lead a part of five characters through five kingdoms to recover the five magic gem-stones (pretty keen on 'five' aren't they). This includes encounters with various evil monsters and creatures that inhabit the castles, armed with only your wits and a selection of magical spells. Oh, and a joystick. Or five.

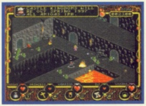
The action is viewed through isometric eyes, with your party running around in a fair frantic fashion trying to avoid the seemingly endless stream of gittish gargoyles that spew forth from every orifice (gosh, that was quite good! See, I could write for a living if I wanted).

Anyway, one glance at the screen shots will show that we're dealing with a colourful and crowded environment, although we'll have to wait until the final product emerges in the Spring (to coincide with the sun coming out for FIVE minutes) before getting to grips with the 'deeper' elements of the game.

Castle KIngdoms is the third release in Mutation's 'value n fun series' made up of Tommy Gun and Tin Toy. All of which are now available at the lower price of £12.99. We should have a full review real soon now. ■

MB





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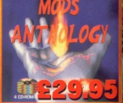

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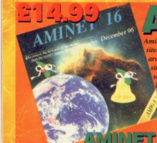

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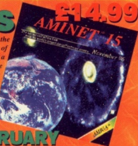

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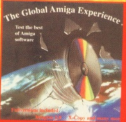
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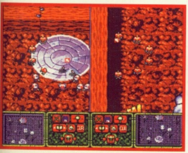
Tiny Troops

■ Price: £17.99 ■ Publisher: Vulcan Software ✆ 01705 670269

Fancy a bit of ruff 'n' tumble in the long grass? Well, we've got just the game for you then.

If you've been reading through our vintage games feature this month, I'm sure you'll have spotted many a familiar name and sighed to yourself thinking "they don't make em like they used to". And you'd be right. Take Cannon Fodder, for example. What a fine classic that was. Good old fashioned fighting with lots of strategy thrown in. Although Tiny Troops will never be in the same league as the aforementioned game it at least borrows some of its better concepts. However, before I go down that road of pointing of why although it's a good game, it will never achieve the greatness of Cannon Fodder, let's check it out first.



▲ There is a two-player option in Tiny Troops. Here one side is busy while the other is just loafing around. Get moving man.

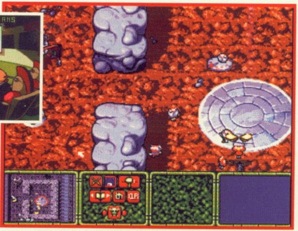
DR. SHAH EXPLAINS TO THE AGARIANS
THAT THEIR PLANET IS IN TROUBLE
DUE TO THE WAR

Sworn enemies the Klutes and the Furfurians have vowed to fight 'till death. Having destroyed pretty much all of their planets, they've chosen Earth for their battleground. However, us Earthlings can't see them 'cos they're only the size of a pinhead but it does mean that most of the terrain in the game is made up of giant-sized flowers and bits of shrubbery.

And so the scene is set. Whatever side you decide to be you've got a fixed number of men at your command for each battle (and believe me there are lots). Your missions will vary along the ones of: either destroy all the enemy or destroy all the enemy plus their base. Your trusted general normally throws out a few hints beforehand but overall it's up to you to decide your battle plan. A one or two-player game, it's is definitely not a shoot first ask questions later one though, you've got to put a bit of thought in there and plan out how you're going to pick off all the enemies and make it to their base without getting killed.

Spice of ...

One of the plus points about Tiny Troops is the amount of variety in the numerous levels. The battle terrain changes a bit and each level gets harder. Different types of warriors in addition to your bog standard foot soldiers crop up throughout the game adding a bit of interest. For example, grenadier soldiers are good for firing at objects which are far away, and flying warriors are great for getting quickly over very dodgy ground as is the transporter and so on. The playing area is well mapped out as well so it is easy to scroll around to see where these soldiers will come in handy. Other bonus options include the save game option and the ability to see how strong or weak a troop is so you can send off your weak soldiers to be repaired and concentrate on killing the weaker ones amongst the oppositions.



▲ Those flying warriors (see bottom right) are very handy for getting over walls quickly and avoiding nasty obstacles such as firing cannons.

Group mentality

However, there a few touches that drag the game down. I found the control to be a bit annoying. Vulcan seem to be obsessed with mouse control. Although Tiny Troops will work with a joystick, it responds better to a mouse. But even still, I found it way too fiddly. Although the main screen is well laid out with the various iconified along the bottom (see page 6 for a breakdown for what each icon does) there doesn't seem to be a quick way of switching from one soldier to another. It's a painful procedure of clicking on a soldier and then clicking one of the various options below: ie defend, attack, repair. This might sound niggly but it was annoying in the later levels when I had a large team of men all at various points of the game. So while I was busy sorting one out the others were busily being annihilated elsewhere. As a bonus point, though, you can move your troops on mass so that redeemed it a bit.

Almost there

Tiny Troops will never be in the same league as Cannon Fodder. The graphics are distinctly Vallhallish and the voices of the soldiers are definitely from Timekeepers. It lacks polish and the control system is too fiddly. to put it up amongst the classics. ■

Lisa Collins

TINY TROOPS

A500 A500+ A600 A1200 A1500 A2000 A3000 A4000

- workbench version.........1.3
- number of disks 3
- RAM...............................1Mb
- hard disk installable ......yes

graphics.............................. 65%
sound.................................. 65%
lastability............................ 70%
playability 70%

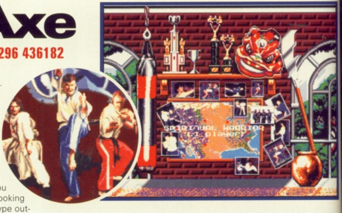
OVERALL

Good strategy game just not a classic.

69 %

Master Axe

■ Price: £14.99 ■ Publisher: Neil Axe ✆ 01296 436182



Those of you around in 1994 will remember that Master Axe was due to be released by Millennium but somehow never quite made it. The game itself generated a lot of interest at the time as it was based on the adventures of an expert martial artist called Neil Axe who toured the United States. Three years on, Master Axe is finally here and is available from the man himself.

Master Axe is a little bit different from the standard beat 'em up, due to its Kung-Fu theme. The characters all perform special realistic-looking Kung-FU moves and the oriental ambiance is helped along by introductory techno/oriental type beat. And as well as the standard beat 'em up tournament options you've also got options like Spiritual Warrior where you fight against your inner demons, ie a shadow of yourself and (my favourite) the US knockout option when you go up against a sinister-looking presidential bodyguard type outside the Whitehouse.

Sadly, there isn't a CD32 control option so you have to rely on joystick twiddling alone. But there is a training academy you can attend beforehand to practice your skills. Other options include background animations, shadow effects and slow-motion sequences. And according to Mr Axe: "If you pause the game and perform certain moves with your joystick you can get turbo mode, blood mode, more animations, and special moves".

However, what drags Master Axe down is the fact that you can't install it to your drive and it doesn't seem to respond to using a second disk drive so you're stuck swopping disks throughout the game. It also could have been a lot more polished. The graphics, although not awful, are not top of the range either. The text on the options screen is very hard to read making it difficult to work out what the options are. But the price reflects this and so it is worth checking out at least. ■

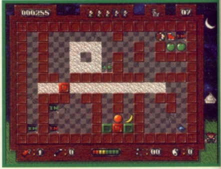
MF

CD32
A500
A500+
A600
A1200
A1500
A2000
A3000
A4000

76%

Blockhead

■ Price: £14.99 ■ Publisher: Applaud Software ✆ 01283 21720



Remember rubix cubes? Those boxes made up of millions of little coloured cubes that you had to manipulate until they all matched. If you do, you were probably one of two types: either you kept twiddling about with it in the hope that, by some fluke, you'd get all the colours to match up and when you couldn't, threw it in the bin (category A) or (category B) you logically worked out the best way to do it through trial and error.

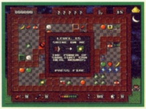
Category A types can leave the room now. Category B types however will love this new top-down view puzzle game from Applaud. Based on a grid system, the basic aim of each level is simple: controlling your little man with your joystick you've got to work out the best way to get the coloured blocks to their relevant homes before time runs out and your little bruv is squashed by the falling weight.

There are forty odd levels to complete which as you can imagine get harder as the game progresses. So what starts off as relatively simple exercise becomes increasingly difficult as there are more and more puzzles to solve and copious amounts of obstacles to contend with. Sounds tricky? Believe me it is. You've got to do a lot of forward planning to get anywhere in this game. Thankfully, there is the usual assortment of fruit available as pick ups along with bombs, health boosts, magic wands, potions and other bonuses.

Applaud have pitched the learning curve more realistically for this game than their earlier puzzle game DNA which was way too hard to even play. Unlike DNA, Blockhead also has a password system so it's a lot less frustrating and so much more playable. However, there are some levels which I still found infuriatingly difficult and the occasionally blip in joystick control didn't help much either.

Puzzle fans will enjoy this game for certain as there is quite a bit of variety in each level. I found it challenging and got a sense of achievement when I managed to work out the best way through a level. The graphics could have been better though and it does have a public domain feel to it. However, if you feel in the mood for a brainteasing session then get this. ■

LC



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A500+
A600
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A3000
A4000

67%

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Reach for the stars

Creator of Captive 1 and 2, Tony Crowther, talks to CU Amiga Magazine about what makes him tick and why he loves programming on the Amiga.

Name: ***Tony (Ratt) Crowther***
Age: ***31***
Born: ***Sheffield***
Occupation: ***Computer programmer/games designer***
Biggest success: ***Bombuzal, Captive, Knightmare, Liberation: Captive 2.***

CU: *When did you start as a programmer and what was the first game that inspired you to write your own?*
TC: "It started at school, where I was writing educational programs in Basic. I got a Saturday job selling computers and then I bought my own computer, a Vic-20. From then on I just wanted to find out how they made games. So I bought a few books and started. The first game that inspired me and got me into programming was probably Donkey Kong on the Dragon 32."

> **"If the license holders were a bit more aware of what makes a good game, they would drop the silly rules."**

CU: *What was the first game you did on the Amiga?*
TC: "My first attempt on an Amiga, was a port of the C64 Phobia (which I wrote) to the Amiga. It gave me a chance to learn the machine as I knew the game inside out. I then drew the graphics for the Amiga version of Bombuzal as this was the first time I could really do some true colour graphics. My first true Amiga title was Captive, where I drew the graphics, sampled the sounds and wrote the game all by myself."

CU: *How easy was the transition from writing games in 8-bit to the Amiga?*
TC: "As I have always written in machine code, I found it very easy to switch from one machine to the next, as the instruction sets are almost identical. The move from 8-bit to 16-bit (C64 to Amiga) was the nicest, as new commands and more registers were available to make life easier. Learning new hardware is probably the hardest thing, as you have to write in a way that suits the hardware, this covers things like sounds, music, screen and the blitter chip."

CU: *How did you come up with the original concept for Captive?*
TC: "Captive, was designed in a strange way, it was me just playing around, there was no true game design. I just made it up as I went along. The original idea was to take Dungeon Master and throw it into a high-tech world to see what happens. The hardest thing with Captive was to make the user believe that he was playing a man-made map, rather than a computer generated map. This probably took up most of the development time, as small tweaks were made continuously through the project."

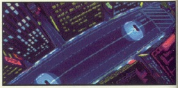
CU: *The long awaited sequel to Captive, Liberation was released on the CD32, why did you think it was so successful?*
TC: "I'm glad to hear it was. Financially I am unaware of this fact. Liberation was a hard slog, too many people requesting new features to improve on the old game slowed the game down, rather than making it better. It took a long time to write, even with two programmers. But at least it was fun, as it was the first time I had done an animation sequence. I think it was so popular on the CD32 because it was probably the first game to make use of all the features of the CD32, so it was good as a look-at-what-a-CD32-can-do-type of game."

CU: *You've produced ITV's Knightmare. Do you like producing licenced games?*
TC: "I have done four licensed games so far, Challenge of the Gobots (C64), Centurians (C64), Knightmare (ST/Amiga) and Captain Planet (ST/Amiga). I don't, as a rule, like doing them because people have their own opinions on what the game should and should not be. So if it's not what they thought it would be they usually don't like it. It's always good if the game has had pre-advertising (the name has), so sales do seem to be better.

The real problem with a licence is the rules. I like to put things in that make it fun, and if it breaks the rules it has to be dropped, or twisted into a form that the rulemakers accept. If the license holders were a bit more aware of what makes a good game, they would drop the silly rules."

CU: *What do you remember being different about the Amiga and why do you think it appealed to you?*
TC: "I remember drawing a picture on DPaint, on Jeff Minter's A1000, and enjoying the ease in which more than four colours could be used. This really convinced me to get my own and about three months later I bought my own A1000, for over £1000 pounds. About five months later, out came the A500 at a quarter of the cost. It was at this point when I decided never to buy a computer again, I felt gutted. Don't get me wrong the A1000 was nice but not four times better than the A500." ■

Mark Forbes



▲ Mr Crowther puts the success of Liberation: Captive 2 down to the fact that it was the first game to use all the CD32's features.

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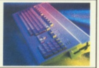

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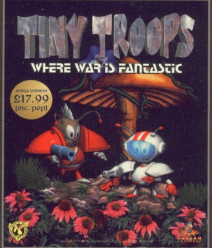

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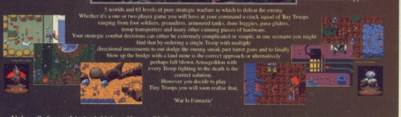

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Tips Central

You want hints, you wants tips, you want cheats? Matt Broughton and Tony Gill have joined forces to bring you one of the best tips sections ever.

RAILROAD TYCOON

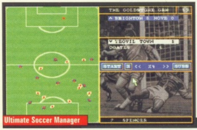
MicroProse

Not as good as the never-released Pizza Tycoon but a right old beauty none the less, Railroad Tycoon has got Stephen Maw of W3 on the job (er ...) and he's come up with the goods (um ...) Anyway, start the game in Western USA (simply because it's easier) and find two towns that are close together and have harbours. Now build the first station at the town you think you're most likely to build from in the future, and then go and build the second station. Select the level map (F2) so that you can see what supplies need to be picked up, and then build a train with one mail car and one passenger car. Once you have enough money, start to improve your station with the following extras: Post Office, Hotel, Switching yard, Restaurant. Build up more money again, and then simply go back and repeat the procedure. Wait until you can afford to buy 10,000 shares of your treasury stock (to avoid being bought out) and then try to build coast to coast! What fun.

DUNE 2

Virgin

Young Jamie Seeney from West Yorkshire has an interesting little cheat for the epic Westwood romp that allows you to take factories over with soldiers! Attack a heavy factory with your force, and have a spare soldier standing by. When the factory's damage meter is down to red, send a soldier in by selecting him and choosing the factory as his target. Once he is inside, the factory will become yours and with any luck you'll get yourself a tank already in production which can then be driven right into enemy territory without being shot at. Cool.



Ultimate Soccer Manager

ULTIMATE SOCCER MANAGER

Impressions

Got a load of players but no cash? Never mind – thanks to Simon McCann from Cheshire you can now have as much dosh as you want! Simply go to the transfer list on the fax machine and sell the player at the bottom of your list using Fast Sell. On the screen there will be a highlighted space with no name. Go to the Fast Sell and sell as many times as you want. Your money will go higher every time you do this!

LEGENDS

Krisalis

"Hey Matt!" writes Matt Barker of Leicester, "I just finished Legends and figured you needed some tips." A very perceptive guy, ladies and gentlemen, for this is indeed the tips page. And so it is that Mr Barker earns himself a free Hit Squad game for the following codes.

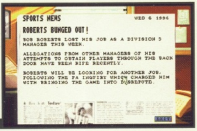
AMERICA:	**No code**
CHINA:	**PMOJNEPM**
ENGLAND:	**MPNJOMMO**
EGYPT:	**PEMJIJKJ**
ALIEN SPACESHIP:	**MDLJJKKD**
END SEQUENCES:	**MCKJTLAN**

WORMS

Team 17

Where would we be without our monthly instalment of Worms level codes, eh? Still, thanks to Bruce Sausage Gray of Newmill, there's bloomin' billions of 'em! Take it away, Hosé...

843632	**Straight Mars**
943632	**Straight Alien**
3221905766	**Straight Jungle**
863632	**Straight Scrapyard**
963636	**Straight Arctic**
2135154	**Two small Forest Islands**
BLU VELVIT	**Two curved Mars Hills**
PULP FACT	**Long scrapyard bridge**
7YNYDGBNG	**Mars cave**
90210	**Weirdish scrapyard**
CAT	**Elephant hiding in a Forest (?!)**
KINKS	**Low down Jungle**



SPORTS NEWS WED 6 1996

ROBERTS BUNGED OUT!

BOB ROBERTS LOST HIS JOB AS A DIVISION 3 MANAGER THIS WEEK.

ALLEGATIONS FROM OTHER MANAGERS OF HIS ATTEMPTS TO OBTAIN PLAYERS THROUGH THE BACK DOOR HAVE BEEN RIFE RECENTLY.

ROBERTS WILL BE LOOKING FOR ANOTHER JOB, FOLLOWING THE FA INQUIRY WHICH CHARGED HIM WITH BRINGING THE GAME INTO DISREPUTE.

Relative to Merlin

Frontier

FRONTIER

Gametek

Hello you old classic you! Yep, Craig Rooney keeps Snip Tips at its usual break-neck speed thanks to a corking Frontier tip. Fly to CEMIESS system (-2.5, -2.5) and go to the planet Emerald. Land in Patricks Exchange and keep buying precious metals until your cargo hold is full. Then fly to the Cegreeth system (-1, 3.5) and sell all your precious metals for a right old profit in the nearest stock exchange. Then it's back to Ceimess where you can repeat the procedure until your sphincter blows!

A free game

That's your lot. Drink up and get these people out of my house. I dunno'... you invite a few Amiga chums round to tell you of any cheats they know and they just trash the place and bore your gerbils to death with their talk of multi-level scrolling parallax. Tsch. Anyway, that's it for this month, but don't forget that there's a free Hit Squad game for every reader tip printed, so get 'em in! Be seeing you ...

Indiana Jones – Fate of Atlantis

I have a spoked wheel, a handle-shaped thing and I've opened the chest plate on the robot. But after attaching the chain to the bronze ring, I can't get him to work. Where does the bead inside the chest plate go? And where can I get a rock to put under the door of Sophia's cell?

David Florey, Sittingbourne.

The trick is to replace the missing parts inside the chest of the sentry statue using the diagram from the cupboard where you also find the crescent gear. When the bronze gear is on the upper left peg a bead will move the arm forward. When it is on the lower peg it will move back. Put the spoked wheel on the central peg, the robot part on top of it and the position the crescent across the two pegs on the right. You simply feed the bead to the statue to activate it. Use the chain on the door. Move the left arm of the statue forward, then connect the other end of the chain to it. Now change the gear in the robot to move the arm back. A hinge pin will pop out, use this rescue Sophia. Give her the pin, then lift the door and she'll use the pin to wedge it open.

Zak McKracken

Can you tell me how to get the dolphin to help in Zak McKracken? I have the blue crystal but whatever I order it to do it just refuses to help and I get grabbed by the aliens.

Keith, (mature adventurer).

Everyone knows that dolphins are very sophisticated and musical creatures, perhaps you could get in its good books by playing it a bit of music? Give it a blast from your kazoo and it will be putty in your hands. If you do get grabbed by the aliens quickly put on the funny disguise and they'll think they've locked up one of their own and let you out again.

Space Quest IV

I am at Ulence Flats in Space Quest IV. What do I do after I have pushed over the sand bikes of the Monochrome Boys and gone back inside the bar and picked up the matches?

Lee Kiff, Muddiford.

Go back to the time hopper and the Sequel Police headquarters. (Use the code you wrote down from before.) To avoid the Monochrome Boys from running you down, use the 'walk' icon and when they're closing in on you, roll aside to avoid them. In the Sequel Police headquarters, go two screens to the right. Use the acid (the slime in the bottle) on the door to melt the lock. Open the door and go inside.

Dreamweb

Can you tell me where the gun is, and what is Ryan's neighbour's door code?

A.J. May, Newport.

In Ryan's bedroom pick up the network cartridge marked important. Put the cartridge inside the network interface near the window. Boot up the machine, type LIST and press enter. Type LOGON RYAN and enter BLACKDRAGON as the password. Type LIST CARTRIDGE and then READ PRIVATE. You'll now get the codes of Eden and Louis.

To get the gun you'll need to talk to the barman in the Pool Hall. Walk left until the end of the corridor and go directly south into Silverman's office using the code 5222. Use Ryan's credit card on the reader on the desk and then take the gun.

Flight of the Amazon Queen

I find it impossible to purchase the alcohol needed to fuel the rocket pack from Trader Bob, despite having the ID card and cash. Help?

Donald Wilson, Grimsby.

I'm not sure what the problem is, as I have looked at the official solution and it doesn't say that you need anything else. The best I can do is to list the official answer and let you see if you've missed out something. Take the elevator to the library and examine the couch to find a load of money under the cushion. Inside the shop look at the comic book in your inventory and you'll find a torn page. Use the soggy coupon on the page to get the Pocket Rocket blueprints. Use your cash to buy the alcohol.

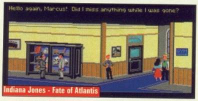
Simon the Sorcerer

In Simon the Sorcerer, how do I get past the snowman in the mountains?

Mark Tucker, Gosport.

My name's Guybrush Threepwood, and I want to be a pirate!

Monkey Island



Indiana Jones - Fate of Atlantis

Well you're not going to believe this, but you get rid of the snowman using the peppermint sweets which you should have found in the Goblin caves! I know, itís not very sensible, but what can I tell you? The theory is that mints are hot on your breath, snowmen are cold, so eat a mint and your breath will get rid of him. Personally I would have thought that some garlic bread and curry would have been a more reasonable answer, but that's adventure games for you.

The Secret of Monkey Island

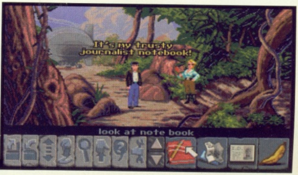
I can't pass the three trials that I need to become a real pirate. I can steal the idol from the mansion and I can defeat the swordsmaster, but I can't find the treasure.

Owen Attewell, Leicester

Well everyone knows that pirates bury their treasure. And everyone knows that they draw up a map showing where they buried it. So have you got the map, and the spade to dig it up with?

You can pick up a shovel near the archway in the town and you can buy the map from the citizen in the town. Begin at the road fork on the large map. The treasure map looks like dance steps, where you move left and right or back and forward. If you follow the instructions carefully you will come to a grove with an 'X' marked on the ground. ■

Flight of the Amazon Queen



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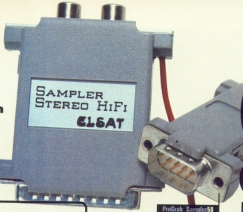
TechScene

The technical section is so packed this month I only have space to say hello and I hope you enjoy all this lovely clobber.



ProGrab Sampler58

52 Cinema 4D 3.0

A new breed of image rendering has arrived. It's looking good: easy enough for beginners and competent for experts. Superb.

58 ProGrab HiFi Sampler

Not only is this sound sampler good, it's versatile too. It can work with ProGrab as well as many other trackers and samplers.

59 Teletext Decoder

Throw away all those TV listing magazines that you keep piled up. This gizmo can let you know what's on the box and more.

Cinema 4D 52

60 Secal

Let's give a nice welcome to a new low level programming language that thinks it's a cut above the rest. Is it?

Pro-TEL
TELETEXT RECEIVER/DECODER

62 Draw Studio 1.1 CD

Lots of extra goodies for the top structured drawing package are on this CD including Image Studio and clip art.

63 Web Explosion

Anyone who has designs on a creating their own web pages will love this. There are lots of lovely images and pictures ready to go.

64 PD Scene

More pretenders to the Dune crown vy for a place on these pages as do lots of strobey tunnely demos. Find out which ones made it.

Web Explosion 63

67 PD Utilities

These pages are full of those useful little gadgets that cost very little but we don't know how we'd get by without them.

70 CD-ROM Scene

Three top rated CDs grace the scene this month: Epic Interactive Encyclopedia, AGA Toolkit '97 and Aminet 4.

72 Art Gallery

More quality readers' artwork makes its way onto CU Amiga Magazine's pages.

CD-ROM Scene 70

PowerAmiga603e
AMIGA
SUPERSTAR

Cinema 4D 3.0

■ Price: £199 ■ Developer: Maxon
■ Supplier: HiSoft ✆ 01525 718 181

Originally applauded for its user interface, Cinema 4D has moved up a gear in the feature stakes.

The Amiga has always been spoilt for choice when it comes to image rendering programs. With powerful packages such as Imagine and LightWave taking all the glory, any new program needs to offer something new and exciting to grab the headlines.

Thankfully, this situation hasn't stifled development and a case in point is Cinema 4D. After proving extremely popular in native Germany, Maxon's Cinema 4D was finally launched in the UK over a year ago.

It was originally distributed by UK Amiga stalwarts, HiSoft, and HiSoft are now more involved than ever with the release of shiny new version 3 and some associated 'add ons'.

Cinema 4D differs from the other major rendering programs in several respects. Most importantly, it's probably the only one to even think about adhering to the standard Amiga Intuition style. What this means is that menus, requesters and gadgets all look familiar rather than over-the-top and you can do the usual tricks of opening multiple windows on the screen at once.

We know best

When it comes to user interfaces, programmers always seem to have a tendency to think that they know best and it makes a welcome change to feel comfortable using a program, even when you've never seen it before. There is only one slight 'improvement' with the interface and that's to do with the way extra features are accessed by holding down the shift key at the same time as accessing an option.

Don't press shift and the default options are used: press shift and a requester appears for extra information. It takes about five minutes to get used to it, and for once, it does make things easier.

This general Amiga compliance continues with the support for programmable menus, the ability to execute external programs and sensible support for screen advanced modes. If you're lucky enough to have a graphics card, then you can bet Cinema 4D will make use of it - either to speed up the editor screen, or to provide a 24-bit/16 million colour display for your images. A special option in the

New features list

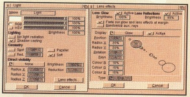
Version 3 of Cinema 4D looks very similar to version 2, at least on the surface. Underneath things have changed with some new features, faster rendering and various other improvements. Here's a list of some of the most important changes.

- **Lens flare and glow effects**
- **Visible light sources**
- **New faster raytrace engine**
- **Improved image saving**
- **Support for JPEG, TIFF and BMP image formats**
- **New colour and grey shading render modes**
- **Improved icons, including MagicWB style**
- **Camera now supports depth of field**
- **Internal optimisation for 68040 processor**
- **Object and depth maps**
- **Faster texture loading and mapping**
- **Scanline renders now supports transparency**
- **Improved inverse kinematics**
- **Faster anti-alias and shadow processing**

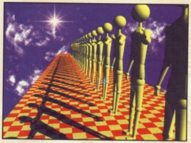
Lens flare

New to version 3 is a realistic lens flare option. Individual light sources can now be configured to introduce simulated 'flare' to a scene. This takes the form of several circles of different colours, superimposed over the final image. Lens flare is actually something which real photographers try to eliminate, as it is caused by limitations of the lenses used in the camera, but there is no doubt it adds to the realism of a rendered scene.

From the new light requester, it's possible to control a number of flare parameters. These will be added to the frame after the initial rendering stage, and can be limited to adding "stars" to bright lights or expanded to consist of about a dozen different rings. Flare looks particularly impressive when animated, as their position on-screen depends on the angle between the camera and the light source.



▲ Precise control of the new flare effect is possible through the expanded light source requester.

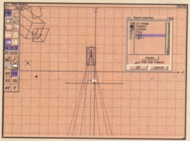


▲ Here's the image complete with lens flare. Notice how the light source is visible and yet the shadows are being cast from a different direction. You can't change the laws of physics: well you can now.

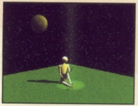
Making light visible is now easy

If you want to see light in a render you either have to introduce something reasonably solid to the scene (some fog for example), or create a semi-transparent glowing rod and use this instead. Neither solution is pleasing. Cinema 4D bends the laws of physics slightly, and makes it easy to 'see' light. Any light sources can be forced to appear in a scene as a gaseous cloud, cylinder or plane. You can use this to easily make huge glowing stars and laser beams for your space battles, or more mundane spot-lights, car headlights or animated lighthouses. As you aren't applying a global layer of fog, the rest of the scene is unaffected.

You can also turn lights off, and prevent them from emitting any light other than their own. This sounds a bit daft and even self-contradictory, but it's useful when you have the lighting of a scene perfect and simply want a light object to appear in the sky for effect.

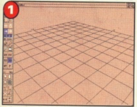


▲ Here's the light source switched to 'Spot' mode: you can see the path which the light will take, and this is perfect for aligning it.

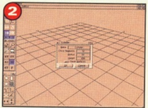


▲ Light sources can now be made visible in renders: here you can see the beam of light coming down from the top of the screen. Notice how it also casts realistic shadows on the ground.

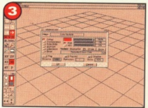
Here's one we prepared earlier and how we did it



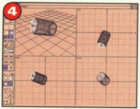
▲ Start with a new project, the window and menus all configured to the way you want them. All the settings can be saved and reloaded.



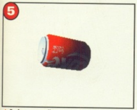
▲ Add a primitive object, in case a cylinder. You can control how much detail is going to be used to define the cylinder by holding down the shift key.



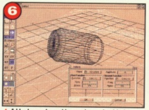
▲ Now define a material to wrap around the cylinder. We'll be using a picture created in an art program. Cinema 4D will wrap it around for us.



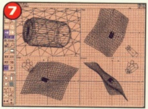
▲ Now create the top and end of the can, using other primitive objects. You can combine and warp shapes to create the object you are looking for.



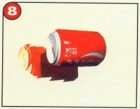
▲ Perform a scanline test render to check all is OK. A scanline render isn't as detailed as a full ray trace but it's faster and will include textures.



▲ Add a large plane object and warp it with the deform tool to make an interesting backdrop. Add a cool background texture to it.



▲ Add a light source or two, and position the camera and other objects using the four-window view. The view in the top left is what the camera will see.



▲ Finally, render the scene in full ray trace mode. This will render shadows and reflections properly. It will take a few moments, but it's worth it!

editor preferences allows you to take advantage of a card's extra speed and if you don't yet have a graphics card in your Big Box Amiga, you'll want one if you ever see it in operation.

What this type of user interfaces and Amiga compliance all boils down to, is that using Cinema 4D is easy. If you've looked at other 3D programs before and thought they all were too complicated, Cinema 4D could change your perspective. It's easy to start creating some great images, and when you start to dig deeper, there is even more to discover. As with all rendering, there's more to it than good surface detail.

A maverick

Cinema4D is a streamlined program and works in quite a different way from other rendering programs.

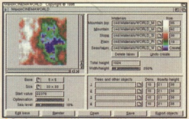
For example, there is only one editing screen. Unlike Imagine or LightWave, you don't need to flick between different sections of the program to create, paint, position and then render your scene. After a while you start to wonder why the others don't use this approach as well.

OK, so this does occasionally

Continued overleaf ▶▶▶

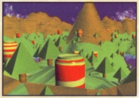
Plug ins

Cinema has an 'open architecture' which let's other programs interact and effectively become part of the main package. This makes it possible to add new features to the program and for third-party authors to add their own ideas to the package.


MaxonCINEMAWORLD Copyright © 1996
MaxonCINEMAWORLD
Materials
Mountain top
Mountain
Slope
Plain
Seas/lakes
Delete lakes
Undo create
Total height 1024
Width/height 250%
Base 5 x 5
Size 33 x 33
Start value 22376
Optimisation 1
Sea level 10%
Trees and other objects
Dens.
from/to height
Edit base
Render
Open
Save
Export objects

▲ Creating your own world is easy. Pick which areas should be lakes and which should be mountains. The program does the rest.

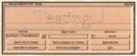
HiSoft supplied two of these plug in programs, both written by Maxon, the authors of Cinema 4D. The first was 'CinemaWorld' a program designed to create landscapes. Although Cinema 4D already has a fractal generator, it's rather limited in scope. CinemaWorld allows you to define a landscape in terms of the mountains, plains and lakes and assign a different Cinema 4D texture to each. You can either let the program create the landscape randomly, or import a DEM file such as the ones available for VistaPro.



▲ Once imported into C4D, you can rendering the scene with as much detail as you like.

▲ With CinemaFont you are no longer limited to the two existing character sets.

CinemaWorld will then create a new object and import it directly into the rendering program for you. If you want to populate your world with trees, it's possible to select a pre-defined object and have that scattered around your world. There's no need to stop at trees of course, as the example picture demonstrates. CinemaWorld will also export a texture bitmap, which you can load into any art program in order to add roads or buildings.


Testing...
Font file
Object name
Precision
Text in 3D to Cinema
Text as polygons to Cinema
Generate text
Save text as polygons
Save all as polygons
Quit

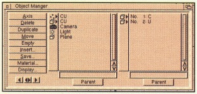
▲ With so many PostScript fonts available in the public domain, you will be spoilt for choice.

The second plug in was 'CinemaFont', a program designed specifically to make it easy to convert existing fonts into objects which Cinema 4D can use. Existing font support is limited to two sets of characters supplied with Cinema 4D.

With CinemaFont it's possible to convert existing PostScript Type 1 fonts into Cinema 4D objects. Varying levels of precision are allowed, and you can either make the conversion a once-off or save the entire font to disk for later use.

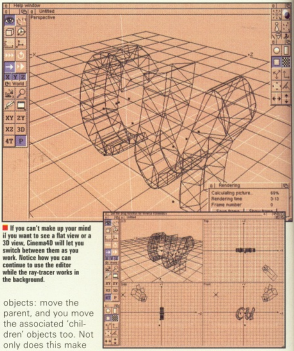
CinemaWorld and CinemaFont CDs both cost £39.95 each and are sold separately to the main package.

mean that the screen can become cluttered, but it also means that it is considerably less confusing for beginners. You can even switch on the on-screen labelling to keep track of your objects. If they are too detailed to keep screen refreshes nippy, you can switch to quick outlines or even boundary boxes to speed them up.


Object Manger
Axis
Delete
Duplicate
Move
Empty
Insert...
Save...
Material...
Display...
CU
CU
Camera
Light
Plane
No. 1: C
No. 2: U
Parent
Parent

▲ Using the Object Manager lets you organise your models in a top-down structure.

In other respects, Cinema 4D shares more with Real3D than it does with LightWave or Imagine. A case in point is the hierarchical approach to objects. Each object can be a parent to one or more objects: move the parent, and you move the associated 'children' objects too. Not only does this make perfect sense (a finger is part of a hand which is part of an arm which is part of a body), but it does away with the need for complicated grouping procedures. It also makes it very helpful to make it straightforward to apply textures and animate complicated objects in a realistic way.


Help window
Untitled
Perspective
World
XY
ZY
XZ
3D
4T
P
Rendering
Calculating picture... 69%
Rendering time 3:13
Frame number 0
CU

■ If you can't make up your mind if you want to see a flat view or a 3D view, Cinema4D will let you switch between them as you work. Notice how you can continue to use the editor while the ray-tracer works in the background.

Once you have created a few scenes and are ready to settle down to some serious rendering, you'll be pleased to note that there has been some decorators in. The rendering windows have been simplified considerably, with more obvious options and a few extra preview modes. As before, there is a stand-alone Shell based ray-tracing engine included in the package. This means you can easily have images rendering in the background as you carry on using your Amiga for word processing.

The rendering can be driven by a script, which means you can set up complicated renders for when you go on holiday. As long as your hard drive doesn't fill up or your cat pee on your keyboard, you should come back to all your different scenes and animations rendered to perfection. Even if there is an error in the first scene, the script will carry on to the next without crashing out.

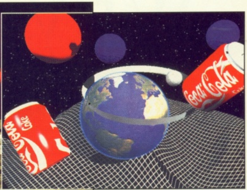
What's new?

Release 3 isn't a huge leap over the previous version and instead adds a few new features, refines the existing ones and answers what few criticisms there were of version 2. In fact, the changes have been so subtle that the documentation for the new version consists of a forty page addendum to the original (and well-written) manual.

Slim it may be, but the new instructions are certainly more than adequate, and cover the excellent new lighting effects, improved deformations, new rendering modes and updated animation system. It also points out the new features which you might miss, such as bringing up numeric requesters on the move and rotate buttons, speeding up the display on graphics cards, and applying camera filters such as 'sharpen' and 'soft focus'.

It was slightly disappointing

▲ The bendy-stick figure is still supplied, although the improved kinematics means he now can be animated even more realistically.



▲ Ray tracing programs are always great for abstract scenes. Here a deformed plane is used to represent the space/time continuum warped by the presence of a consumer based society. Or something like that.

to discover that there was nothing phenomenally breath-takingly brand new or beyond-state-of-the-art in this release, and in particular there were still no procedural textures or new special animation special effects (my favourite Imagine features). Support for alien file formats such as JPEG was welcome though, something which other programs should think of including.

Speaking of animation, a copy of the shareware version of MainActor is included for post production work. You'll need to register it to get rid of the 'nag' screens though. The existing MagicLink conversion program has been updated and simplified, making it easier to convert objects from Imagine and other formats, into native Cinema 4D format.

Why this one?

Although a slightly restrained update, version 3 is still a worthwhile upgrade to buy. The highlight for me was the new and improved light source effects, but existing users will be pleased to note that rendering times have also been improved, and code has been re-written for the 68040. If you happen to have seen a demo you'll certainly appreciate the supplied version for floating point unit equipped accelerator cards.

As a quick test, I ray-traced the same 800 by 600 scene on both the old and new floating point versions. Version 2 took eight minutes and 30 seconds, whilst version 3 took only two minutes and 33 seconds.

That's quite a substantial improvement - especially if you are rendering animations.

However, you still might be asking yourself why should you bother with Cinema 4D when you already have access to a package such as Imagine? For one thing, Cinema 4D is a great deal easier to get to grips with. With its non-standard orange interface and multiple editors, Imagine is frankly, scary at times. Over the years it has had so many new features and options built into it that it's now groaning under its own weight.

Cinema 4D is a comparatively modern program, designed with advanced features built-in and has always been more Amiga-friendly.

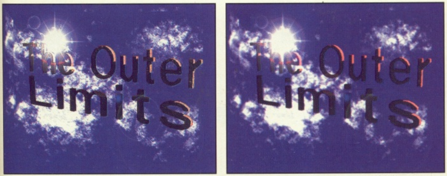
If you do know Imagine inside out, then you'll appreciate that there is a great deal of power available. You can certainly perform certain tricks with Imagine that are not possible from Cinema 4D.

However, the question is, are you prepared to invest the time? Cinema 4D comes with a comprehensive manual, and UK based technical support, and I wouldn't blame a single soul if this could be the overall deciding factor.

Overall

Cinema 4D is an excellent package for both 3D newbies and old-timers. It's easy to use, even quicker at rendering and is capable of some very excellent results. Perfect software to go with that 030 and 8Mb SIMM you've had your eye on ... ■

John Kennedy



▲ Cinema 4D now allows certain filters to be applied to the camera. Here are two in action: 'Sharpen' and 'Soft focus'. Both are carried out with 24-bit accuracy.

CINEMA 4D V3

A500
A500+
A600
A1200
A1500
A2000
A3000
A4000

system requirements:
Any Amiga with 68020, OS 2, 12Mb hard drive and 3Mb memory. Faster processors and more memory recommended.

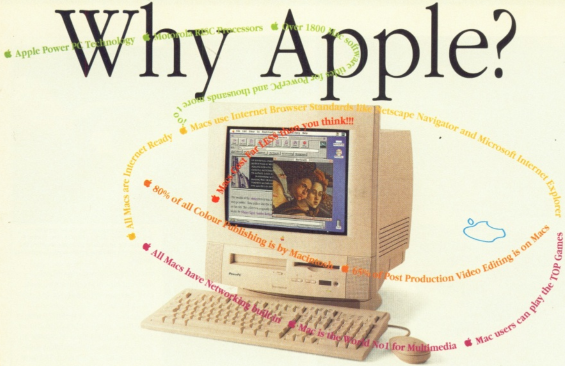
ease of use......................94%
Standard Amiga interface means it's the easiest image render program available.

performance...................90%
Lacking the power of some of the more established packages, but catching up rapidly.

value for money.............88%
Good value. Once you're hooked you'll be using this program non-stop.

OVERALL
Easy enough for beginners, powerful enough for experts. Perfect.
92%

Why Apple?


Apple Power PC Technology
Motorola RISC Processors
Over 1800 Mac software titles for PowerPC and thousands more too!
Macs use Internet Browser Standards like Netscape Navigator and Microsoft Internet Explorer
Macs Cost Far LESS than you think!!!
All Macs are Internet Ready
80% of all Colour Publishing is by Macintosh
65% of Post Production Video Editing is on Macs
Mac users can play the TOP Games
Mac is the World No1 for Multimedia
All Macs have Networking built in
PowerPC

One day we may see the rebirth of the Amiga with a PowerPC processor and other new features to enable it to compete again with today's systems. Sadly though, more than two years since Commodore's demise, very little of substance has happened. We've seen prototypes and promises, but that's about it...

Perhaps some can wait for the final outcome, but if you need more performance, without paying the earth - and you need it today - there's one real alternative to consider now...

Only Apple can offer you both desktop and portable computers that truly match the ease of use the Amiga brought to your desktop. Affordable Apple Macintosh systems have PowerPC RISC processors with thousands of off-the-shelf programs available in areas where the Amiga was previously so strong.

And, if you need to have the most compatible of all computers, Macintosh is currently the only system that can run MacOS, DOS and Windows applications via optional DOS Cards or SoftWindows.

Why Macintosh?

Performance:

All Macs are PowerPC based (except PowerBook 190s). Even entry level systems run at 100MHz or 120MHz, with 200MHz powerhouses and 180 MHz multi-processor systems at the top of the range.

Apple is the only mainstream computer company who has been able to make the transition from the older CISC (complex instruction set computing) processors to the newer and faster RISC (reduced instruction set computing) processor technology - whilst still retaining full backward compatibility with previous software.
Remember 486, Pentium/Pro & 680X0 are merely CISC!

Mac OS

Software choice:

Over 1,800 native software packages (written specially for PowerPC Macs) have been shipped since Power Macintoshes were launched in 1994 - plus there are thousands of existing programs which can also be used.

Industry standard programs such as Word, Pagestream, Word Perfect, Page FileMaker Pro, Excel, Quark Xpress, Photoshop and many others have all been developed for the Mac.

Creativity:

- Macintosh still dominates the creative world with an 80% market share in colour publishing.
- 65% of post-production video editing is on Macs.
- Macintosh is the most widely used system for the creation of Internet web pages.
- Most magazines (probably the one you're reading right now) are created on Macintosh.

The Internet & Communication:

INTERNET READY

- All Macs are Internet ready; many include a 28,800bps modem with full send/receive fax and answerphone management facilities.
- Industry standard web browsers, Netscape Navigator and Microsoft Internet Explorer, were developed for the Mac. Both give full access to all Web sites with new Internet page layout features like auto-tables and on-screen movies.
- The Internet's standard format for video files, called QuickTime (or QuickTime for Windows), was an Apple development. Of course it comes as standard with every Mac.

Connectivity & Expandability:

- All Macintoshes have networking built in as standard, so connecting systems together and adding shared printers etc. couldn't be easier.
- All Macintoshes have an external SCSI connector as standard (except Duos) - adding external drives, cartridge drives, scanners etc. really is Plug-and-Play.
- Low-cost digital cameras can be plugged into the Mac for instant real image input.
- Inexpensive industry standard PCI cards can be used in all Mac systems from the 5400 upwards.

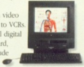
Education & Edutainment:

- Many quality Macintosh titles are widely available. Dorling Kindersley offer superb titles like The Ultimate Human Body and History of the World whilst Microsoft publish Encarta, Cinemania and Dinosaurs.
- Because Macintosh is the preferred system within many educational establishments, high quality software is assured.

Multimedia:

MULTIMEDIA EQUIPPED

- Apple is the World's No. 1 Multimedia PC vendor.
- All desktop Macs have a fast CD-ROM drive as standard (portables get internal CD soon too).
- In 1995, 42 of the top 50 selling CD-ROM titles worldwide were developed on the Macintosh.
- Many Macintoshes have built-in TV with teletext so TV clips can be recorded directly to disk as QuickTime movies.
- Many Macintoshes have built-in video in and out, for direct recording to VCRs.
- Some Macintoshes have internal digital video editing facilities as standard, others can be upgraded to include this facility with ease.



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- Top games like The Ultimate Doom, Myst, Rebel Assault II, Dark Forces, Descent, Afterlife, Lost Eden, Legend of Kyrandia, Full Throttle and The Dig have all been developed for Macintosh.

Output & Presentation:

- Connecting and using colour printers (from Epson, HP, Apple and others) to Macs is so easy and the results are truly outstanding.
- Many software packages are available offering image manipulation and superb photo quality output.

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14" Monitor	£286	15" Monitor & Keyboard	*Inc.*
28.8k Modem	£135	28.8 Modem/Fax/Answerphone	*Inc.*
TV Options	*Not Available*	TV 'Live in Window' on screen	*Inc.*
Video In/Quicktime	*Not Available*	Video In/Quicktime	*Inc.*
PCI Card Facility	*Not Available*	PCI Card Facility	*Inc.*
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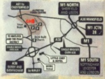

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ProGrab HiFi Sampler

■ Price: £24.95 ■ Developer: Elsat ■ Supplier: Gordon Harwoods ✆ 01773 836781

AMIGA SUPERSTAR

If you thought all 8-bit sound samplers were the same, take a look at this little beauty.

SAMPLER
STEREO HIFI
ELSAT

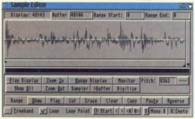
Priced at an attractive £129.95 the ProGrab video digitiser has probably been responsible for introducing video grabbing to more Amiga users than any other digitiser. Now ProGrab has its own sound sampler for a companion. And this sampler is also compatible with a wide range of existing sampling software packages, making it well worth a look from anyone into sound sampling or music.

There are two models of the sampler available. For this review we looked at the Hi Fi Stereo version rather than the alternative Standard Stereo version which costs £5 less. The Hi Fi sampler is an 8-bit digitiser which connects to the Amiga through the parallel port, as standard. However, it also has an additional connection which plugs into the joystick port (and includes a joystick pass-through), from which it draws a small current. Unfortunately, the length of the cable on the review model was too short to reach the joystick port of any Amiga other than an A1200 or A500, although this has been drawn to the developer's attention and so should be rectified soon.

Pro-GRAB
24RT

The ProGrab video grabber comes in two forms, the basic set-up in which it connects to the parallel port and another which has a PCMCIA interface for A1200 and A600 users. If you have the basic ProGrab you will need to buy the PCMCIA upgrade to use the sampler at the same time, due to them both requiring the parallel port.

As the sampler is sold as an addition to ProGrab, it doesn't have any software of its own. Instead, the ProGrab software has support built into it for the sampler. When used with ProGrab the idea is that it records a digital soundtrack in realtime as you grab animations from video. This is of limited use due to the poor performance of ProGrab PCMCIA during animation grabbing, so don't expect to be able to take full screen animations with sound at 25 frames per second.



Display: 48143
Buffer 48144
Range Start: 0
Range End: 0
Pitch: 8363
☑ Loop

▲ You can use ProGrab with most available trackers and samplers. Now that's what I call compatibility.

Speed

Elsat, the developers, claim the sampler will work at 20KHz maximum, and "this limit is set by the Amiga hardware". Nonsense! The Amiga's 8-bit parallel port has to be accessed by the CPU through the hardware. You can write software to do this in any language you like. The speed of the language determines the speed of sampling. I successfully managed sample speeds of 100KHz using some hastily knocked up Assembler, five times faster than Elsat's claim. The maximum sampling speed really depends on which type of Amiga you sample on. This is important, because the faster you sample, the better your sample will sound. Some people claim that it is pointless to sample over a certain rate, because "you can't hear the difference". This is not true – super treble frequencies cross modulate with lower, 'audible' frequencies.

Conclusion

No matter which sampling software you use, this is a great piece of kit for the price. It is a crying shame that it will not fit onto an A1000, A600, A1500, A2000, A3000 or A4000, simply because the power lead from the unit is not long enough to reach between the parallel and joystick ports (and the A1000 has a different parallel port). Interested users of these Amigas should call Gordon Harwoods to check if the design has been modified, as this is likely in the future.

There isn't a manual at the time of going to press. Not including any software is one thing, not including a manual is almost insane. If I had a pound for every blown parallel port because someone plugged something in when the Amiga was turned on ...

The ProGrab Hi Fi Sampler is a great little sampler, even though it's only aimed at ProGrab users who want to take sound samples alongside animations. While the combination of a ProGrab 24RT and this sampler is far from an ideal realtime audio-visual digitising system, if you're after a new sampler to use with your audio software this is recommended. ■

Pat MacDonald

Not just ProGrab compatible

Don't think that this sampler is limited to use with ProGrab. On the contrary, it's compatible with most trackers and sampling software, including OctaMED SoundStudio which was given away with the March issue of CU Amiga Magazine. Combine this compatibility with its extremely high performance and sound quality, and it looks like a very strong contender to replace your existing sampler if you have one. If you don't yet have a sound sampler you might be tempted to go for a sampler which comes with its own editing software but remember you already have SoundStudio which has a very powerful sampling section built in.

PROGRAB HIFI SAMPLER

A500
A500+
A600
A1200
A1500
A2000
A3000
A4000

system requirements:
A1200 or A500, ProGrab or standard 8-bit sampling software.

ease of use.......................70%
Most users should find it easy enough to connect but it does nothing without extra software.

performance.......................99%
The fastest, cleanest, meanest 8-bit sampler I have yet seen.

value for money.......................96%
A superior sampler for the average price. Respect!

OVERALL
A brilliant sound sampler for all occasions.
92%

ProTEL Teletext Decoder

■ Price: £24.95 ■ Developer: Elsat

■ Supplier: Gordon Harwoods ✆ 01773 836781

ProTEL
TELETEXT
RECEIVER/DECODER

◀ Looks just like early versions of the ProGrab.

Not satisfied with offering us a video grabber and now a new sound sampler (see review opposite) Elsat, via Gordon Harwoods, now present a stand-alone teletext grabber: ProTEL.

Teletext is a primitive graphics and text format that was designed in the 70s for use with on-line computer systems, the like of which you may have seen running on the desktop terminal of a travel agent for example. Due to their simplicity, teletext pages can also be squeezed into the extra bandwidth of a TV signal.

If you like, the teletext information is hidden in the invisible lines of the picture. ProTEL is a device that downloads these pages into your Amiga, from where you can browse and save them for future reference. The ProGrab video grabber already has facilities for downloading teletext information, but ProTEL offers a cheaper alternative.

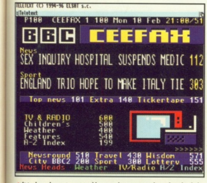
Did it grab ya?

Grabbing teletext pages is a simple enough job, you can't just plug a TV aerial into the box and tune in from the ProTEL. The easiest way to use ProTEL is with a home video recorder, connecting the 'video out' socket of the VCR to the input on the ProTEL. The ProTEL then connects to your Amiga via the parallel port.

To actually grab a selection of pages, you switch to the appropriate TV channel on your receiver (such as a VCR for example) and then specify the range of pages you want to grab (between numbers 100 and 899) from within the ProTEL software. ProTEL downloads your specified range of pages which you can then browse 'off-line' in the same manner you would if you were browsing them 'on-line' from a live TV signal.

If you want to download the whole range of currently broadcast teletext pages from a certain channel, let's say the entire Ceefax broadcast for example, you can expect to wait around ten minutes as the information is sucked in and passed onto the software.

However, if you want to then pull in teletext from a different channel you need to close down and restart the ProTEL software for it to work. This is obviously not satisfactory, but I'm hopeful this will be fixed with a future software update.



```
 P100  CEEFAX 1 100 Mon 10 Feb 21:00/51
 BBC CEEFAX
News
SEX INQUIRY HOSPITAL SUSPENDS MEDIC 112
Sport
ENGLAND TRIO HOPE TO MAKE ITALY TIE 303
  Top news 101 Extra 140 Tickertape 151

 TV & RADIO      600
 Children's      500
 Weather         400
 Features        540
 A-Z Index       199
                                >>>>>>
  Newsround 510 Travel 430 Wisdom   571
   City BBC2 200 Sport  300 Lottery  555
News Heads  Weather  TV/Radio A/Z Index
```

▲ It took me hours to get to this stage but once you have downloaded you can tap in the page to go to on the numeric keypad and you are there. Browsing requires you to use the mouse though.

In analysis

Once you've got your pages downloaded you can start flicking through them. Unfortunately, the pages are rendered to the screen in Super HiRes mode, even though a teletext display could easily fit on a plain old 640 x 256 pixel screen, which would be much more practical when it comes to saving out pages as IFF screens. You can switch the software to run on any screenmode you like from a standard screenmode requester but if you choose a more sensible screenmode you'll then have to scroll around the still-massive rendered bitmap of the current teletext page.

This high resolution default also means that pages saved as IFF images take up far more space then they need to – a standard download of all the BBC Ceefax pages was 900K when saved to disk as IFFs. You can save your pages in any of three formats: IFF, text or FG24 (ProTEL's own file format). The text export option is particularly useful for clipping out text information for quick and easy access in future.

Conclusion

The software is a bit of a minefield, although Gordon Harwoods tell us it's still in development. The teletext software on the ProGrab digitiser does a much better job with a much simpler interface.

Sure, these problems can be fixed and with any luck they will have been by the time you read this.

For the record, the software version tested here is 1.60. Feel free to call Gordon Harwoods (tel: 01773 836781) to check on the progress of the software if you really would need them fixed up for the system to be of use.

There are many additions Elsat could make to the system, quite apart from fixing what's already there.

An option to edit and display teletext pages would be helpful to those wishing to use the Amiga in cable TV work. Being more flexible about which pages the unit looks for would again be welcome. A better manual would be nice too.

This unit does have its uses though. If you're the sort who buys a TV guide every day, this box could save you money in the long run. For example, using this unit to see what's going to be on TV later in the day could save trees, which is something I approve of. No doubt, however, others will find many more uses for ProTEL. ■

Pat MacDonald

PROTEL

A500
A500+
A600
A1200
A1500
A2000
A3000
A4000

system requirements:
Video Source, Hard disk,
17 inch monitor

ease of use......................79%
Getting it connected properly is simple but requires careful aerial setup to get decent downloads..

performance 56%
Works, displays pages in superhires size, then needs to be reset.

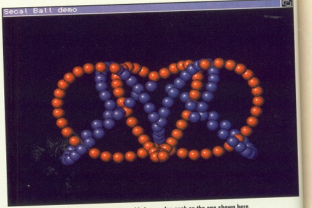
value for money.............82%
Far cheaper than splashing out on a new teletext capable TV.

OVERALL
Needs more work on the software.
69%

Secal 1.0

■ **Price: £34.99** ■ **Developer: TDS Development**
■ **Supplier: OTM ✆ 01827 312302**

A new low-level programming language that's got fancy ideas above its station: it thinks it's high-level. We'll see about that.



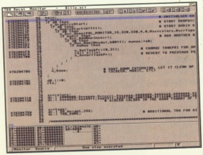
▲ Secal is actually quite good despite the provided examples such as the one shown here.

Apart from boasting an IDE (Integrated Development Environment), the Secal package claims that the language "combines the advantages of Assembly and the high-level languages". The degree to which this is true depends on your point of view but if you take it to mean that it's Assembly with some clever, pre-defined macros you won't be far off.

The good bits

Secal provides a thin layer on top of Assembly that comprises of 'variables' and assignment, some standard constructs such as 'if' and 'while', and simplified linking via 'incobj' and 'inclib' (this last feature is almost hidden by the documentation!). There's also a very useful link library which contains routines that can ease the pain of common Amiga chores like handling audio, animation and sprites. All these things will be music to the ears of frustrated Assembly coders: there's the speed and flexibility of Assembly with some time-consuming idioms done for you.

That's not all: there's also this neat IDE. That means you get a dedicated source editor with an integrated compiler and debugger. These three fit together rather well and the IDE is an area where the Secal package shines. Compilation is not particularly speedy when compared to a decent Assembler or something like Amiga E but it does attempt to do some (simple) optimisations. And when you're debugging you can chose to view the code as source, disassembly or hex. In fact, the IDE has most of the essential features, although the editor lacks modern tools like syntax highlighting, syntax checking and label lists (for quickly moving around a large source file).



▲ A good IDE (at the time).

Letdowns

The Secal package is extremely promising. The core parts are done very well but there are a number of things that hold it back. The manual is quite poor in places (but very good in others) and some of the best features are virtually ignored. This would be forgivable if there were a lot of well-documented examples that started off simply and got progressively more advanced. But, unfortunately, the few examples are obsessed with fancy graphical effects and optimal coding techniques, rather than teaching how to use the Secal language or the Amiga OS.

The packaging suggests that Secal may be suitable for beginners. But, apart from the lack of documentation and good examples, there are other reasons why this is a little optimistic. First, the language makes heavy use of macros (like Assembly) and there is no warning about the common problems and misconceptions concerning macro parameters. Secondly, there's no standard startup code, so if you want your programs to be able to be run from Workbench you need to know how to code it yourself. And finally, while there is support for even multi-dimensional arrays they can only be referenced using constants. So, if you want to write, say, a generic routine to sort an array, you'll need to do it using Assembly code, rather than Secal array notation.

Another category of potential user is the advanced programmer who might want to consider this as an alternative to Assembly language. However, there is one critical feature which the Secal IDE does not support: multiple source files. An advanced programmer will know the benefits of breaking up large projects into several different source files (or modules), and will want a development system to support this, especially in Assembly where modules are the only way of separating the scope of labels and variables. The Secal language supports this (through use of `incobj') but the debugger will let you debug only the main source file in the source view (the best you can do for the other modules is the disassembly view). Interestingly, there are no examples that use multiple source files; the largest example is a small space invaders game and the source file is 14KB.

Another small problem with the debugger is that you can debug a program only if you've compiled it to memory. So if it crashes you have to compile it before you can debug it again. An option to save a version of the compiled code that can be loaded and debugged directly would be helpful.

While we're on the subject of small problems: the IDE will warn you if you try to quit it when the editor has a modified source file, but it will not warn you when you try to open another file (it just throws away any changes you may have made). And the IDE generates a lot of Enforcer hits (random low memory reads) when starting up and when compiling. This is usually an indication of a dangerous bug somewhere but the IDE does seem very stable, so maybe the problem is benign.

Promising start

TDS deserve a large pat on the back for trying something new like this and for doing so well at the first attempt. Secal is a very reasonably priced and is a promising product that needs only a couple of minor updates (a better manual, decent examples and a couple of minor bug-fixes) to make it recommendable. But it's only ever likely to appeal to fairly advanced users, and probably just Assembly coders that want some relief from the tedium of standard programming idioms (like 'while' loops). In fact, it may well be the programmers from the demo scene that would make best use of this tool. ■

Jason Hulance

SECAL 1.0

A500
A500+
A600
A1200
A1500
A2000
A3000
A4000

system requirements:
OS 2.0

ease of use.......................85%
The IDE is pretty good and is easy to get to grips with.

performance.......................75%
It's basically Assembly, so there's the potential for fast code. The compiler is moderately quick.

value for money..............77%
Priced aggressively but this version has some flaws that let it down on value.

OVERALL
Only very advanced users need apply.
79%

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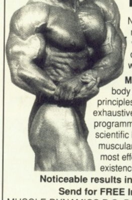

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£24.95

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Draw Studio V1.1 CD

Draw Studio at a glance

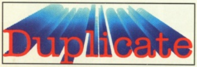
- Opens DR2D-IFF
- Places JPEG, BMP, GIF, IFF-ILBM , PCX, Illustrator 88
- Exports EPS, JPEG, BMP, GIF, IFF-ILBM and PCX
- Bitmaps can be exported from DrawStudio at a any resolution as well as anti-aliased
- Objects in Draw Studio can be filled with bitmaps
- Objects in Draw Studio can contain solid or transparent colours or gradients
- Text can be placed on curves or around boxes
- Cutouts can be created using compound objects
- Two or more bitmaps can be rotated and joined together to create a new bitmap

■ **Price: £74.95** ■ **Publishers: LH Publishing ✆ 01908 370 230**

Version 1.1 sees an updated version of Draw Studio on CD along with two other useful applications.

Draw Studio, written by Andy and Graham Dean of ImageStudio fame, is an illustration package that lets you integrate structured objects and bitmaps for use in other applications or to be output direct from the program. When we reviewed it in October 96, it was only available on floppy disks and had two versions of the program, one for Amigas without an FPU as well as one with an FPU. Now, however, at version 1.1 this new release on CD contains updated versions of the main application as well as a number of other applications and support material. So we thought it well worth a look.

Support for both structured and bitmap formats is a definite bonus as it means that images created in Draw Studio can be used in many areas such as DTP, as well as web graphics, video titles, multimedia screens and lots more. A major difference between Draw Studio and other similar applications is that Draw Studio relies on MUI for its interface. The result of this unusual combination is that Draw Studio is incredibly easy to use but at the same time powerful with many unique features on the Amiga.



▲ The duplicate function in Draw Studio can be used to create effects like this.

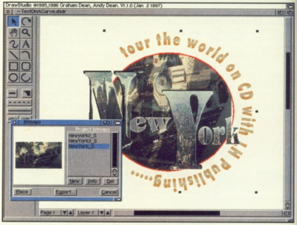
Special reader offer

Fancy a copy of the Draw Studio CD as well as saving fifteen quid? Then take advantage of a special offer from LH Publishing where you can buy the CD version of the program for only £59.95 (plus £3 postage). This offer is strictly limited for one month from the date this issue is released. Call 01908 370 230 for details.

Three in one

With Draw Studio's ability to fill any structured object with a bitmap fill as well as blend solid and transparent objects, you can do many of the things you might already create in a bitmap based application but now it's easier. This is because Draw Studio is object orientated. Unlike a paint program, where if you place elements on the page, they are fixed in place, in Draw Studio they can be picked up, resized and much more, all without affecting the quality of the image.

The main changes since our last look at the program include the addition of localisation and the extension of the character set. Some of the points we raised in the last review, such as the resolution of exported objects limited by the amount of chip RAM you have, will be addressed for version 2 we are told. Draw Studio, however, is not the only application on the CD. Also present is the image processing package ImageStudio as well as a texture generator in the form of TextureStudio. All three applications work well together, especially ImageStudio and Draw Studio. You can, for example, create a piece of text in Draw Studio, export a bitmap version, blur it in ImageStudio and then import that back into Draw Studio to combine with the original text to create soft drop shadows. Such shadows can also be done using transparent shadows slightly offset to one another.



▲ On the CD, you will find loads of example projects such as this to give you ideas on what the program can do.

Materialistic

An application like this is nothing without materials and the CD version is packed with things such as Type 1 fonts for creating text as well as textures for filling objects with. There is also a wide variety of JPEG photographs. If it's examples you want, then there are plenty of these with both Draw Studio files as well as exported bitmap equivalents. This lets you see how a lot of the effects on the CD are created.

The layout of the CD is superb with everything where you'd expect it to be and well labelled. The end result is an excellent combination of a great illustration program with useful support programs and materials. Even though not a lot has changed with Draw Studio, the addition of all the other stuff turns the package into a one stop graphics toolbox. Not only that, you also get printed manuals for both Draw Studio and ImageStudio nicely presented in a proper box. If you're into graphics or desktop publishing, this is a must have because it will let you do things you couldn't do before. Let's hope we see more new software of this quality appearing. ■

Tony Horgan

DRAW STUDIO CD

A500 A500+ A600 A1200 A1500 A2000 A3000 A4000

system requirements:
Workbench 2.04, 68020 processor or above, 3Mb of free memory, hard drive.

ease of use....................95%
Very easy to use. If you do need help, it there are two printed manuals.

performance....................92%
Lets you do the things the others can do as well giving you new tools to play with.

value for money..............90%
It's not that cheap but you get plenty for your money.

OVERALL
A CD packed with applications and materials. **92%**

Web Explosion

■ Price: £49.95 ■ Developer: Nova Development ■ Supplier: HiSoft ✆ http://www.hisoft.co.uk

AMIGA SUPERSTAR

Do you spend hours, days or even weeks trying to find decent pictures for your web site? Yes, well the search is now over.

▲ Hmm what about a nice peaceful watery scene for my Web site backdrop.

Whether you're just starting out with designing web pages or are something of a supremo webmaster, it's a hard job finding good quality graphics to suit. HiSoft claim to have come to our rescue with a double CD set of nothing but images specifically for web design. The breakdown is as follows; 10,000 buttons, 500 bullet points, 750 backgrounds, 250 banners, 1000 dividers, 250 textures, 1000 photos and 7000 clip art images. Wow!

To buy or steal

So why buy this set rather than steal your graphics off someone else's site? Well it's quicker to use this is and the sections are themed in a particular style. Pick the style you want and the bullets, buttons, navigation bars and such forth are all there to match. There's also the rather impressive book that comes with the two CD-ROMs. The book has most of the CD graphics in print, about half in colour, the rest in black and white.

There's a fantastic array of exactly the kind of graphics you need to make a truly professional web site. There's some excellent backdrops with the colours toned right down so that you can see the text clearly superimposed as well as the originals if you prefer to do it yourself. But the buttons and navigation bars stand out as there is a mindbending selection which is beautifully crafted.

The names of the directories are descriptive enough for casual browsing through the book and generally send you straight to what you're after. It could be criticised for not having HTML code on the CD so you could navigate yourself and see them in a real WWW browser but I didn't find this a major problem given the excellent book. Unlike common Mac generated graphics, the GIF images tend to use only the depth of colours that are required for compact size. Some of the JPEGs are of questionable quality, though most are superb.

For one and all

It's not the cheap option but coupled with our Wired World HTML tutorials and a good text editor, virtually anyone with a good eye for design and could go into commercial web design. That's not an exaggeration, it's a very real reality as there's a shortage of webmasters across the world as every company scrambles to get onto the Net.

All the web pictures are copyright free naturally and though the CD-ROMs are PC style 8.3 filenames only, the Amiga has no problem accessing them. I recommend this package very highly. It's a fantastic professional collection of graphics for webmasters. If you're serious about web design, get this now. ■

Mat Bettinson

WEB EXPLOSION

A500
A500+
A600
A1200
A1500
A2000
A3000
A4000

system requirements:
Any Amiga with a CD-ROM or access to a machine with a CD-ROM

ease of use......................96%
The guide book and CD structure makes it a doddle.

performance....................92%
Lots and lots of images but could do with some HTML.

value for money..............89%
Not cheap but there's a great deal on offer.

OVERALL
Superb Web design collection. A must buy. **92%**

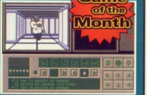
PD Scene

public domain

Andrew Korn has had enough of fast cars and loose demons. But he still likes a good role playing game when he sees one.

Cyberdrone
RPG

Game of the Month

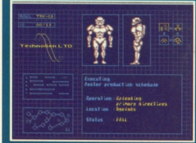


Cyberdrone is a first person perspective adventure game very much in the Dungeon Master mould. It is highly unusual in that your character is dead before the game starts. Of course modern medical technology being what it is, death should no longer be considered an obstacle to overcome.

In a Robocopesque piece of cybernastiness, your still-warm corpse has been sold to Technogen Ltd, who are intent on installing your body with all sorts of chips, sockets and things. Fortunately for you, the command interface fails, and your original personality comes back on-line, giving you the opportunity to make your escape from the labs of the evil Technogen Ltd and, presumably, find the nearest cybernetic removals shop and become yourself once more. This sort of thing happens to me most mornings, but I tend to feel that a nice cup of coffee does the trick.

Wandering around the lab complex as you hunt the exit, you come across all sorts of objects, puzzles and enemies. General gameplay is marred at first by the badly designed icons. They are all drawn in lurid green line art and are quite unintelligible without recourse to the instructions. As you explore you have to keep stocked up with batteries and food, and you can find add on boards which plug into your zorro slots to allow you to see dangerous energy fields and the like.

The graphics of Cyberdrone certainly leave something to be desired, but the game is really atmospheric despite this. Well worth a peek for fans of the genre.



Executing
Master production schedule

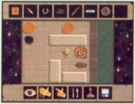
Operation : Uploading
primary directives
Location : [illegible]

Status : FAIL

Available from:
Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 2SH. Tel: 0161 723 1638.
Price: £1 plus 75p P+P.

89 %

Dark Citadel
Puzzle game



You could argue that top-down adventures with a main character who talks to the player is a genre and this is just following the genre, but only if you were trying to wriggle out of admitting that this is a blatant copy of the Valhalla series. Now personally I think that there is no harm in PD releases based around other games, but a commercial release, even a cheap one like this, which is THIS close to someone else's work seems a tad dodgy to me.

Having had my moan, I have to say that this is a good clone. The graphics are nice and clear, although the update speed is a crawl. Best of all you never try to identify some vague squiggle only to be told "you KNOW what that is!". If this game engine is ever used to write something with some originality, game of the month is a real possibility.

Available from:
F1 Licenseware, 31 Wellington Rd, Exeter, Devon EX2 9DU.
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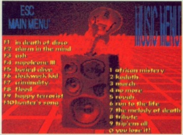
88 %

In Death of Disco
Jukebox



F1 in death of disco
F2 alarm in the mind
F3 ash
F4 napoleonic III
F5 buried alive
F6 clockwork kid
F7 criminality
F8 flood
F9 happy terrorist
F10 hunter's song

1 african mistery
2 kadath
3 march
4 no more
5 rough
6 run to the life
7 the melody of death
8 tribute
9 trip'em all
0 you lose it!

This strangely titled collection from Italy crams an impressive 20 tunes into a very nicely presented two-disk floppy album. The mods have a distinctly hard rock/heavy metal flavour, which was par for the course a few years ago but is pretty rare these days. The whole lot lasts a whole hour, so if moshing about in front of your Amiga in a biker jacket is your cup of special export super strength, you're going to think this rocks.

Available from:
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Tel: 0161 723 1638.
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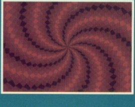
86 %

Satisfaction Guaranteed
Demo



Bouncing balls, plasma tunnels, swirling white dots. These are not the stuff of original demos. In fact there is something about this one which distinctly reminds me of the old Commodore 64 demo scene. I don't mean this in a bad way, this is a lot better than anything on the 64, it's just a kind of nostalgic style thing. The demo starts with a spinning bouncing primary coloured sphere thingy, which is pretty relaxing. Then there are some tunnel effects and some white dots which swoop around like mentally disturbed termites in a wind tunnel. I don't think I'd go as far as confirming the title, because there is no effect in this demo which isn't done better somewhere else, but it does the job.

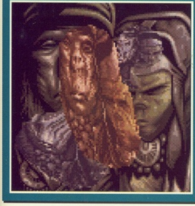
Available from:
Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 2SH. Tel: 0161 723 1638. Price: £1 plus 75p P+P.

82 %

Amatory
Minidemo selection

An excellent way to view a bunch of demos, this is a collection of 'intros', or short (frequently under 40k) demos. The demos all run from the nice menu you are presented with on boot-up. They don't all return you to the menu, but that's the fault of the demo programmers, not of the compiler. I find it amazing that demo programmers, who are capable of some truly astonishing feats of programming from advanced plasma animations to ultrafast chunky to planar routines seem to have real trouble coding things like exiting a program cleanly or even being able to exit it at all without having to reboot.

There are nine demos on this disk, and some of them are really good. OK so the alliterative Bice Twice from Starise is probably only going to appeal to you if you are a Scandinavian (other than a Norwegian), and have been forgetting to take your prescription haloperidol but there are some pretty good things too. Particularly noteworthy are Essence, by Brainbow, which is a realtime spinning lightsourced reflective 3D shapes jobbie, and Stellar, which has some impressive FX, including a very nice fast picture in picture tunnel effect.



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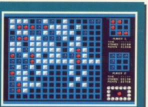
88 %

Logic
Puzzle game



Logic is one of those pebbles on a grid sort of games. Playing against the computer or a human opponent, the challenge is to place coloured pieces on the board to repeat a pattern within a three by three grid next to the board. As each pattern is reproduced, you are presented with a new pattern to make. Your score depends on how successful you are in doing this. The challenge is to balance out the necessity of blocking of your opponent's patterns whilst finding time to make your own.

What makes a board game of this type good or bad is how challenging the problems it presents are. The tactic of this game, which is to place your stones in such a way as to block your opponent at the same time as building useful structures for yourself, provides exactly the right sort of need for forward planning and tactical thinking which keeps you wanting to play.

The computer opponents aren't hard enough to provide a big challenge in the long term but it will provide enough of a challenge to learn on but you'll be wanting to play against human players pretty quick. An excellent board game though.

Available from:
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89 %

Fast Cars
Slideshow

Why can't there be a slideshow of alternative transport systems, that's what I want to know. There do seem to be fair numbers of Amiga users who are into pics of Ferarris judging by the number about, but I'm not one of them. I mean, OK, so they are very high quality GIFs displayed as a self booting slide show with a nice fast GIF displayer, all very professional and so on, but how about something on solar powered trains and lighter-than-air freight vehicles of the future? Why does no-one send me that sort of thing to review?

Of course, if anyone was thinking of sending me their Ferarri to review, I withdraw the preceding statements in their entirety.

Available from:
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84 %

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Access VISA

PD Utilities

public domain

Christmas has moved to March shock. Well, it's always best to be prepared. To figure out how this change of festive seasons occurred you could always try to work it out by mathematical equation using Mathscript, Andrew Korn's utility of the month.

Christmas clip art 97

Um ... Christmas clip art

Call me a cynic but I'll bet that a month or two ago this two-disk clip art collection was called Christmas Clip art 96. I mean, Christmas comes earlier every year, but this one arrived in the office in mid January. On the other hand Christmas post gets worse every year, so why not play it safe and get your cards done now.

The clips are pretty standard Christmassy fare with ruddy-cheeked Santas and playful reindeer, exactly the kind of stuff that makes me mention old-fashioned black and white striped boiled sweets, but it is of a very high quality.

Available from: Classic Amiga PD., 11 Deansgate, Radcliffe, Manchester M26 2SH. Tel: 0161 7231638. Price: £2 (for two disks) plus 75p P+P per order.

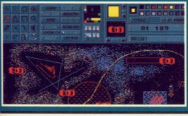
86 %

Kid's Stuff!

Paint plus

Kid's stuff is a great little package. It has a host of additional features for playing mods, designing postcards or birthday cards, writing notes and so on. Painting is non standard, lines and shapes being drawn with start and end dots rather than the hold and release method, which is annoying, but the wealth of options makes up for this.

Available from: Roberta Smith PD, 190 Falloden Way, Hampstead Garden Suburb, London NW11 6JE. Tel: 0181 455 1626. Price: 90p plus 50p P+P. Special offers for users who register shareware.



88 %

Mathscript

Mathematical equation editor

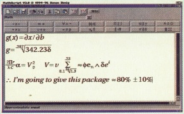
$$g(x)=\partial x/\partial b$$

$$g=\sqrt[.287]{342.23\delta}$$

$$\frac{2\Pi r}{\lambda C}\alpha=V_0^2 \qquad V=v\sum_{8.1\sqrt[.54]{1.3}}^{.23}\approx\phi e_n\wedge\delta e^i$$

$\therefore$ *I'm going to give this package* ≈ 80% ±10%

Utility of the Month



$$g(x)=\partial x/\partial b$$

$$g=\sqrt[.287]{342.23\delta}$$

$$\frac{2\Pi r}{\lambda C}\alpha=V_0^2 \qquad V=v\sum_{8.1\sqrt[.54]{1.3}}^{.23}\approx\phi e_n\wedge\delta e^i$$

$\therefore$ *I'm going to give this package* ≈ 80% ±10%

Fonts don't tend to come with things like 'less than or equal to' symbols, 'therefore' symbols, 'root' symbols, etc and keyboards don't have keys for them anyway. Mathscript, however, by Simon Ihring allows you to type as normal or access an extensive selection of symbols from logically laid out menus. The program is intelligent in its handling of input, scanning what you type in and configuring the font to match, attempting recognise whether you have typed in a function or a variable for instance, and using a different font for each.

The equations can then be output to bitmap or encapsulated Postscript format, which it does via the Post.Library. The EPS output was not only read without complaint by Quark on the office Macs, but even produced a preview, a feature Amiga programs just don't do. I can't pretend anyone who doesn't regularly produce documents containing complex equations will ever find a need for it, but if you do, this program is brilliant.

Available from: Aminet path: Misc/Math or phone local PD library. Registration for full version: £15.

91 %

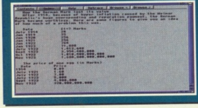
The Road to War

AmigaGuide

The Road to War is an AmigaGuide overview of the historical trends which lead Europe to World War 2. It is written by Mark Tebbutt, a 15 year old history student, who has decided to share his GCSE research into WW2 with us. Don't expect a multimedia presentation, animations of Junkers bombers diving over London, Mpeg newsreels and samples of Hitler's speeches, because you'll be disappointed.

The level of research in the document is basic but wide reaching. Mark Tebbutt may be a history student not a history teacher, but he is clearly interested in his subject and this comes through in the text. This is a long way from being a complete history, but it is literate and written with an enthusiasm which makes you want to read on, which is exactly what it should do. It would be a mistake to think that reading this file will make you an expert, as the author warns at the start of the text, but if you want an informative and easy to read overview to give you a background for your own researches, this will do the job nicely.

Available from: Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 2SH. Tel: 0161 723 1638. Price: £1 plus 75p P+P.



83 %

Esperanto

Artificial language

Esperanto is an artificial language invented a little over a hundred years ago by Polish doctor Ludwig Zamenhof. He had the crazy notion that it would be good if everyone spoke the same language, and even crazier, everyone ignored him.

There are less than ten million people who speak Esperanto today and being something of an academic curiosity 90% of Esperantists presumably speak English, so isn't it all a hopeless failure? Not if you want to speak a pretty exclusive language and gain 10 million enthusiastic friends worldwide and it is VERY easy to learn.

The language course on this disk is actually rather good, if not very user friendly. It does unfortunately rely a little on the Amiga's speech synth, although it manages to make noises more like a singing crocodile than the normal robot with dysentery, which sounds less irritating but also less intelligible than before.

There is also a CLI command to translate English (or German or Portuguese) to Esperanto, but it has a poor dictionary – it even fell down on hello.

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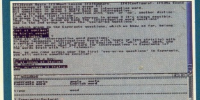
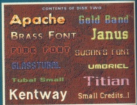


86 %

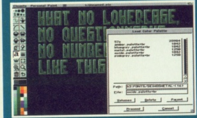
Blue Rose Colour Fonts

Colourfont collection



Eddie Barry is back with another of his disk collections for CD-less Amigans. This four-disk collection has 27 fonts, much less than on a CD-ROM fonts collection, but Eddie has tried to compensate for this by making the fonts in his collection that much better than normal. These aren't everyday fonts, they are very decorative, but if you want bold, colourful fonts for games, video titling etc, this is a great place to look. The fonts aren't all complete, several don't have lower case or numerals, which is a bit of a minus point, and the range of extra characters is somewhat variable – not that you'd be likely to use the fire font for mathematical formulae.

I really liked this collection. Eddie Barry does his own fonts rather than just compiling other peoples, so they aren't fonts you'll have seen everywhere and disk one is a slideshow of the other disks, which is a big help. Most of the fonts come with a range of palettes just to keep them interesting and a couple are even designed for colour cycling use.

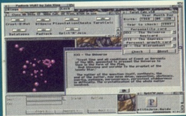


Available from: Eddie Barry, 14 Tudor Brae, Donaghcloney, Craigavon, Co. Armagh BT66 7LF Price: £5.00 inc. P+P.

91 %

Class HD utils 17

Utility assortment



This month's entry in the mixed utilities stakes offers a pretty eclectic mix. Crypt-o-mat, a file encrypter, and padlock, which locks the screen until a password is entered (or the computer is rebooted) are here for the security conscious, NewYear genie, for Delitracker, draws a firework display to go with your mods, Split 'N' Join allows you to copy large files onto several floppies, and Tarot Calc tells your fortune. There are also decent JPEG and PNG datatypes and a list of Playstation cheats. Given the huge number of utilities knocking around, collections like this aren't going to be hard to find. The question is always whether this is the collection for you. The software in this one is all good for what it is but the collection isn't really 'must have' unless there is something specific you want.

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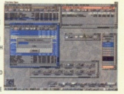

◆ A font viewer ◆ Listers fields for titles, re-sorting by fields, plus a 'version' field ◆ Colour re-mapping of button/icon images with support for 'Magic Workbench' etc. ◆ Selectively hide unwanted drive icons ◆ Clipboard support for cut, copy and paste in gadgets & Listers ◆ Resize, Iconify, and scroll busy Listers while busy ◆ Icon and Lister snapshots are stored separately from Workbench - so you could snapshot your CD-ROM icons! ◆ Listers can now display a background picture/pattern ◆ Internal Opus CLI to quickly test commands & ARexx scripts ◆ Many new internal commands and many new ARexx commands have been added or extended with new features. You can now even add your own internal commands!

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CD-ROM Scene

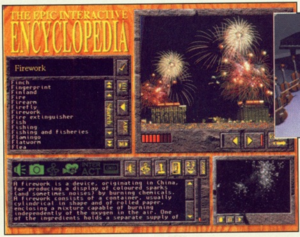
Andrew Korn takes another look at those wonderful things called CDs.

Epic Interactive Encyclopedia

When the previous edition of this encyclopedia was released, a lone dissenting voice, Tony Horgan, who reviewed this last time around, felt there was a distinct lack of multimedia meat, suggesting that too much space was spent on the more frivolous aspects to the detriment of the encyclopedia section. He was also a bit concerned about the lack of a truly authoritative voice in what is after all intended as reference material. Epic released the 1997 version with a stated aim of answering all the various criticisms of their previous release. Have they succeeded? Let's see.

The Epic Encyclopedia installs the driver software and a directory structure on your hard drive. This makes use far faster at the expense of a mere couple of meg of hard drive space. The installation process takes a little time but there is a nice piccie and a bunch of samples of important historical events such as the moon landing to keep you amused while you are waiting. Because the make-up of the Encyclopedia is actually a directory structure placed on your hard drive by the installer, there is a very easy upgrade path, with new entries or updates to entries just being chucked into the appropriate drawer. It is way off from being the fastest way of running the system, though. Jumping through the Encyclopedia list to an individual start letter takes about 30 seconds, which is an absurdly long time for what would have been a simple indexing function if it worked in a more orthodox fashion.

Once the program is up and running, the most obvious change has been that Epic seem to have taken Tony's advice and scrapped the media show, a section which presented a dull slideshow with a rather uninformative voice-over. Replacing it is a database of Europe; click on the map and you'll get a flag and a paragraph or two of text on the country in question. Not hugely detailed, but it's useful and takes up a lot less memory than the media show.



Firework

Finch
Fingerprint
Finland
Fire
Firearm
Firefly
Firework
Fire extinguisher
Fish
Fishing
Fishing and fisheries
Flamingo
Flatworm
Flea

A firework is a device, originating in China, for producing a display of coloured sparks (and sometimes noises) by burning chemicals. A firework consists of a container, usually cylindrical in shape and of rolled paper, enclosing a mixture capable of burning independently of the oxygen in the air. One of the ingredients holds a separate supply of

The Exploradepia is a clever section that is designed for kids, displaying pictures of various scenes which you can click around with the mouse to get a reaction - a drum starts to play, a dinosaur roars - and if you select learn mode you then get dumped into the Encyclopedia with a small selection of entries available relating to the subject.

Use of the Encyclopedia proper is very straightforward. It has been improved since the last release with a wide and powerful set of control options, most notably the multimedia switch, which reduced the number of entries in the Encyclopedia by a long way but ensures that everything you click on will have some multimedia add-ons, avoiding the all too regular "Sorry there is no image for that subject" messages that crop up during normal use. You'll probably quickly find that you spend a lot more time with this option on than off.

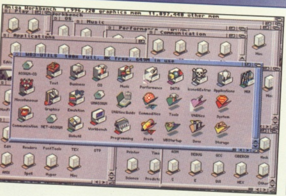
The range of multimedia information is noticeably improved from the original; the interface has been changed to show a key for the various inclusions that each file has; sound sample, music track, sound medley, photos, film clips, or interactive. The film clips remain a touch disappointing, but the sound is now quite impressive. Look up a form of music and you will find an example tune to listen to, look up monkey and you will hear it whoop, look up Amiga and you'll get quite a laugh. The images are plentiful on the whole good, and can be zoomed up to if the small box seems limiting, but the selection is rather weird. You get the impression that the inclusions in this encyclopedia were ruled more by what they could get than what they actually wanted. Hitler rates a single photo when old newsreel and Nuremberg rally sounds were surely in order, whilst the entry for bricks rates four photos, presumably because they are so easily available as textures. Interaction sounds like a good idea, but the only time this icon lit up for me was on computer games - there is a rather average Space Invaders to play.

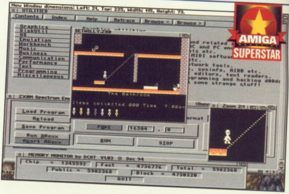
There is still a worry about the lack of an authoritative voice; the information is roughly two thirds by the authors and one third sent to them by various customers. I didn't notice anything actually wrong, and some individual articles are strong, but you wouldn't trust this as a reference source the way you would something from Collins, for example, and the information can be a little sparse. Having said that as a learning aid for kids, as a quick reference guide or for the sheer enjoyment of browsing through, this is now a really worthwhile disc.

Available from: Epic, 43 Akers Way, Swindon, Wilts, SN2 2NF. Tel: 0500 131 486. Price: £29.99 plus £1 P+P. Owners of older editions ring for upgrade details.

91 %

AGA Toolkit '97





Weird Science step into the super utilities disc ring with a heavyweight contender. The title is slightly deceptive - although AGA stands for Advanced Graphics Architecture, suggesting perhaps that this is a CD full of great graphics utilities, this is in fact a toolkit for AGA machines, and covers as wide a range of software as you would expect from any utilities collection. They seem to have gone for a presentation somewhere halfway between the Aminet style of everything accessible from an AmigaGuide front end, and the lovely NewIcons presentation of our very own CUCDs.

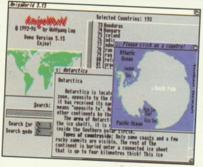
Getting at the software from the AmigaGuide was not as satisfying an experience as it usually is from an Aminet disc; there was a lot more that didn't work this way and I rather got the impression that the compilers hadn't really done a great job in ensuring that there would be a reasonable degree of functionality from this front end. I don't expect them to be able to get everything to work this way, and indeed there are a fair few files whose entries in the guide contain a link to the documentation, but no button to activate them. No problem. Unfortunately, there was quite a bit which had a click to start button but didn't work anyway. The AmigaGuide front end is still great for going through all the documentation, but I found myself resorting to the Workbench or a directory utility most times I wanted to actually try out. a piece of software.

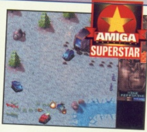
Despite this mild moan about the presentation, there is a huge amount of good software on these discs. Don't expect anything revolutionary or new. If you have a subscription to the Aminet collection you probably won't find anything you don't already have, but that is par for the course with this type of CD. It is nice to see a collection that is this solid; there are all the usual fonts, backdrops, icons and so on but there aren't huge, space gobbling quantities. The space is much better employed with the huge collection of utilities. There isn't the room here to do justice to a list of what is on this disc but it the ground that is covered is awesome. There is a truly excellent directory of disc utilities, with good CD utilities, loads of compressors and files systems like Diskspare, which allows 984k on a floppy. DOpus users are catered for with loads of DOpus utilities. System monitors, file conversion utilities and Workbench add ons abound, and there is a great collection of emulators, from ShapeShifter through Oric Atmos, with a collection of C64 and Speccy games to keep you amused. The quality continues throughout with some real gems in every directory, from the 95% rated Executive to this month's PD utility of the month Math Script. I could go on forever. A £10 bargain and yet more proof that owning a CD-ROM drive is worth the cost ten times over.

Available from: Weird Science, 1 Rowlandson Close, Leicester. LE4 2SE
Tel: 0116 234 0682.
Price: £9.99 plus £1 P+P.

92 %

Aminet Collection 4





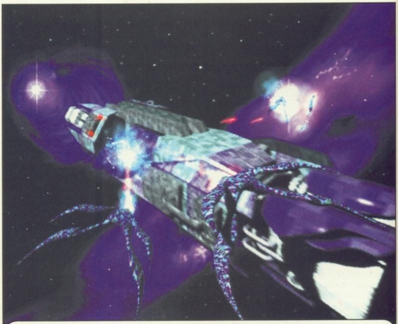
The latest four-CD Aminet compilation comes with Directory Opus 5.11, coincidentally this month's main cover disk application. As is always the case, aside from Directory Opus, you get about four gigabytes of archives taken from the Aminet on-line PD archive. That's the equivalent of around 5,000 floppy disks. It would cost 20 times the price of this collection just to buy that many blank floppies. If you've ever used the Aminet, or an Aminet CD, you know what this is about. All the files on the collection are accessible via the Aminet AmigaGuide front end and search engine which has become the standard other disks aim for. Organisation is straightforward and sensible, which is very important when you have over a thousand pictures, almost 3,000 mods, and more than 3,000 other programs. You could spend years going through this. I'm not going to even start listing the software on here – as this collection covers Aminet disks 13 to 16, you can look at your back issues and scan the reviews of those to get an idea of what is here. The 600 odd Mb of extra stuff on this disk will have to remain a mystery. Unless you've been collecting all those Aminet disks, this is a must have.

Available from: Weird Science, 1 Rowlandson Close, Leicester LE4 2SE.
Tel: 0116 234 0682.
Price: £34.99 plus £1 P+P.

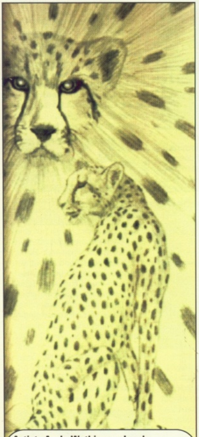
92 %

Art Gallery

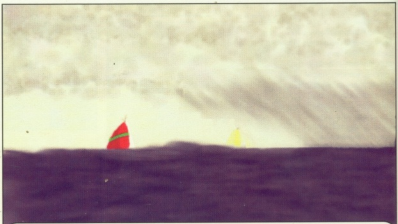
Time for a cultural interlude. Relax, sit back and enjoy this selection of reader's art. Once you've done that you can turn to the Workshop section.



Artist: Jonathan Scutt Amiga: A1200 Apollo 030/50 8Mb RAM
Software: Photogenics, Cinema 4D2



Artist: Andy Watkinson, Leeds
Amiga: A1200, 22Mb RAM,
Blizzard 1230 Software: Photogenics

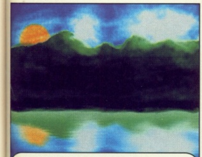


Artist: Andy Watkinson, Leeds Amiga: A1200 22Mb RAM, Blizzard 1230
Software: Scanned in with Powerscan Pro and modified with Photogenics

Artist: Andy South, Cleveland
Amiga: A1200 Software: Real 3D

Picture of the Month

Artist: Joel Nicklasson, Sweden Amiga: A1200, Blizzard 1230 50MHz, 32Mb RAM
Software: Real 3D, Photogenics



Artist: Terje Karlsen, Norway
Amiga: A1200 SW: Photogenics

Artist: Tyler Davidson, Canada
Software: LightWave

Amiga: A4000, 18Mb RAM

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NEW

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To order any pack below just write the pack name & if more than one pack available please state eg: CGfont pack3 to order CG font pack no:3 ect

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These clipart below are in IFF format, This format is universal compatable with any Paint programor any DTP eg Dpaint, Wordsworth, Pagestream,ect

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These font pack are sutable for any paint programe eg DPpaint, Ppaint ect

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- WorkBench font pack 2..(5 disk full of fonts)
- Large Colour & logo type font pack 1 (5 disk)
- Large Colour & logo type font pack 2 (5 disk)

CG-FONTS

These high quality fonts pack scalable & are compatable with all version of D.T.P, wordsworth, Page-stream WB3, ProPage 2, Finalwriter, ect

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- E024 EASY SPELL II improve your kid spelling
- E025 SCRABBLE require 2-4player. Brillant
- E027 OSWALD Very colourful large cartoon game
- E030 EVOLUTION breed your own hybrid
- E031 IQ TEST + IQ GAMES pack 1 excellent
- E033 TYPING TUDOR very good typing tudor
- E038 AMIGA TUTORIAL 7 part tutorial
- E039 COMPUTER CARE how to care about AMIGA
- E051 INVISIBLE WORLD brillant recommend
- E075 WORLD-WAR 2 graphics tutorial on worldwar
- E094 HIGH WAY CODE TUTOR on highway code
- E96 READ & LEARN (2D) THREE LITTLE PIGGY Story with speech & graphic. brillant recommend
- E097 BACK TO SKOOL (3) collection of the best
- E100 LITTLE TRAVELER imfomation on world wide
- E101 WORLD GEOGRAPHY world with map & text.
- E103 DISCOVERY OF THE ATOM. Tutorial
- E109 MR MEN OLYMPIC (2D) many event to complete
- E118 WORKBENCH 2 tutorial on Work Bench 2
- E121 PICTURE PUZZLE brillant JIGSAW type games
- E122 WORD FACTORY Brillant, teach kid words
- E126 CHILDREN SONG 2 contain 5 excellent song
- E175 FRANTIC GUIDE TO COMPUTER(2D)brillant
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- AGA008 KLONDIKE DELUXE AGA (3D) best A1200 card games with glamours lady as cards face 18 + only
- AGA013 MOTOR INVADER 2 (2D) Brillant INVADER gane
- AGA021 MAGIC WORKBENCH Improve the your WB & add some function to your WB really BRILLANT
- AGA41 ADULT SLIDE Vol 1-9 (2 disk each)
- AGA62 BODY SHOP VOL 1-7 (2 disk each)
- AGA80 FITCHICK vol 1-3(2disk each)
- AGA102 AGA DIAGNOSTIC - NEW system tester
- AGA138 OFFICIAL WORKBENCH 3 Harddrive installer
- AGA139 WB3 HARDDISK PREF & INSTALLER installing
- AGA140 CROSS DOS PLUS v5.1 read/write PC files
- AGA145 BIG TOPS (18 + only)HMMmm
- AGA170 CINDY CRAWFORD Vol II (2disk)
- AGA174 MAGIC WB EXTRA vol 1 & 2 (2disk)
- AGA230 LOVE 2 disk-simply brillant DEMOS
- AGA295 DE-LUXE MONOPOLY- Board game.
- AGA296 DONKEY KONG Arcade classic conversion
- AGA297 BOMB PAC Extreamly good to play
- AGA299 DE-LUXE SCRABBLE-new version
- AGA303 PAMLA.ANDERSON.(2) 18+ only
- AGA321 HOT-BABE 1 (2) MUST BE OVER
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GAMES

- G356 WONDER LAND amazing graphic recommed
- G362 DELUXE PACMAN + best pacman ever release
- G435 ROULETE amercan roulete excellent
- G438 TRAILBLAZER 2 C64 conversion
- G441 ETYPE 2- Simply the best asteroid
- G455 CASTLE OF DOOM VG graphic adventure.
- G567 STARBASE 13 (2D) Bril like MONKEY ISLAND
- G657 AMOS LOADSA MONEY best FRUIT-MACHINES
- G659 MR MEN OLYMPIC (2D) many event
- G673 BOBBY GARDEN + DIGGER (NEW) Brillant
- G680 SPACE-INVASION 2 - Fantastic Galaxain
- G698 AMIGA-BOY-Game boy emulaor + tetriz
- G772 UN-SENSIBLE SOCCER very similar to Sensible scoccer games. RECOMMEND
- G798 6 EXCELLENT CARD GAMES collection
- G839 BOULDER PACK 640 BRAND NEW LEVEL on 8 disk must for all Boulder dash fan
- G670 CHESS II & CHECKER the best around
- G892 PENGO 2- Maze type games. Recommend
- G893 SUPER OBLITERATION similar to PANG
- G896 ULTIMATED QUIZ -pub style quiz machine
- G682 BANDIT MANIA - fruit machine demo
- G938 ULTIMATE TOUR TENNIS (2disk)
- G942 MACDONA-LAND-similar to ZOOL (not A1200)
- G943 JOUST III- C64 games with update graphic.
- G944 DELUXE GALAGA V2.6-Very Latest Galaxain.
- G956 TRAIN-DRIVER SIMULATION-realistic train sim.
- G958 KNOCK-OUT -Mini derby destruction,
- G960 MORTAL KUMQUAT 3 - Weird but fun beat-em-up
- G961 CODE NAME NANO- Thrust clone (NANO FLY 2)
- G962 MICRO MARKET V3-Get rich by buying share.
- G973 SPELL TRIZ -addictive-tetriz but with letter
- G975 H.E.R.O -games convert from the Atari 2600

UTILITIES

- U024 D-LOCKS proctect your disk & files
- U334 EMULATOR COLLECTION II (lot of emulator)
- U490 207 utilities-COMPILATION
- U620 HOW TO CODE IN C (2disk) + many examples
- U622 ACTION REPLAY V1.5-cartridge on disk
- U623 ACTION REPLAY V4 (A1200 ONLY) same as abov
- U650 COPY & CRACK TOOL 2 powerful copy progran
- U680 NEW SUPER VIRUS KILLER(not WB3)kill 316+ vi
- U714 ENGINEER KIT various test kit for Amiga
- U739 TURBO IMPLODER V3.1 powerful disk cruncher
- U746 3D GARDEN DESIGNER can wiew from any angl
- U740 CROSS DOS 5.1 plus read/write PC<>AMIGA dis
- U752 EPU STACKER double the storage of your DRIVE
- U846 C64 emulator V3 (2DISK) latest
- U848 SPECTRUM EMULATOR V2- latest
- U849 VIC20 Emulator include ton of games
- U887 DISK RERPAIR KIT 4-disk repair, undelete,ect
- U1012 TEXT-ENGINE V5 (not WB1.3) very latest wordprocessor with spell checker. highly recommed.
- U1013 DIARY-2000 use just like the real diary
- U1016 ULTRA ACCOUNT - very good account program
- U1022 PRO-FOOTBALL 1.1(2) football predictor
- U1025 MESSY SID 3- Latest PC<>AMIGA disk converte
- U1026 HD GAME INSTALLER 4- Install more games to H
- U1027 SOFT-MEMORY-Double Your Coumpter memory This does not require HD or MMU.
- U1028 MAGIC-USER-INTERFACE V3.1 NEW version
- U1029 ORIC 48K EMULATOR (Not 1.3) At last it Work
- U1030 MSX II Emulator V2.1. (WB3.0) MSX computer o
- U1031 900 AMIGA GAMES HINT,& CHEAT V4 (2 disk).
- U1033 CANNON printer driver for BJ210,610,4000 & 4
- U1034 WITCHES COOK BOOK- anti-aging cream is on of many recipt on this disk

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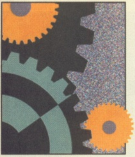
Amiga Workshop



As well as the usual helping of top tutorials, this month we are kicking off a new series on desktop publishing starting with how to get your page to print out looking like it does on screen.

76 Imagine 4.0

Manipulating objects beyond recognition is always fun but it's even better with our super cover disk from the January 1997 issue.

82 New DTP Series

Desktop publishing guru Larry Hickmott has kindly agreed to share some of his secrets with us over the coming months. Good stuff.

84 OctaMED SoundStudio

More musical tinkering, experimenting and exciting discoveries with our wonderful cover disk from last month.

86 Wired World

Don't believe a word Trevor and Simon say on Transmission Impossible, this is where you find out how the Internet works.

89 Surf of the Month

Hmm, what a well balanced person Tony Horgan is, his interests are very varied as this surf selection shows. But who let the pigeons in?

95 FAQ

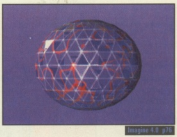
If you're keen on learning more about graphics then look here to learn about the difference between structured and bitmapped images.

96 Masterclass

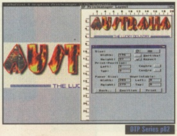
More reasons as to why you should use the Shell more. Not only does it make your life easier, it saves you lots of time.

98 Q&A

Even though the Amiga is the best computer there is, sometimes it goes wrong or things don't work. Don't worry, we're here to help.



Imagine 4.0 p76



DTP Series p82

Q
WEB
The Divine Mr Hanno
Return To Langley Par
-Prefab Sprout revisite

Surf of The Month p89

Regulars

102 Backchat

As the CU Amiga Magazine team are not known for sitting on fences (see page 105) neither are its readers as these two pages prove.

104 Subscriptions

If you had to turn to the back issues page more than once in your lifetime then you need a subscription. It makes sense: it saves you time and money so do it now.

105 Points of View

The CU Amiga Magazine team are not know for sitting on the fence getting splinters up their bottoms. No sir, if they've got something to say then they'll say it here.

106 Back Issues

This is the page to turn to if you missed out on any issue of CU Amiga Magazine. All the main details of previous issues including cover disk and CD content are here.

Imagine 4.0

PART 4

The Detail Editor is full of secrets and special tools which can be used to create new objects or alter existing ones beyond recognition.

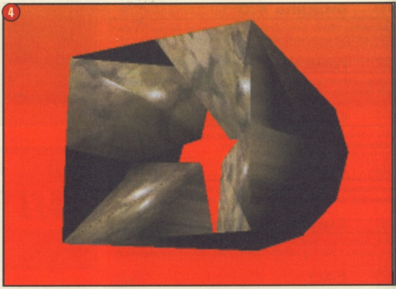
The Detail Editor has lots of functions which are designed to help you create interesting and complicated objects. However, how they operate is far from obvious, so let's look at how some of the more obscure tools work. All the options which follow are available only in the Detail Editor, so you'll need to have selected this editor to start.

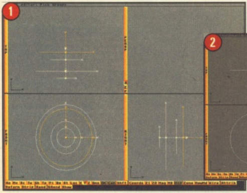
Skin (Object Menu)

Apply Skin to a selection of shapes and Imagine will create a new object whose surface is defined by the shape's outline. It's easier to see it happening rather than explain, so check out **pics 1,2,3,4.**

A disk was created from the Primitives menu and the 'point' at the centre was removed (this makes the object hollow). The disk was then duplicated and resized. Finally all the disks were selected and the Skin function applied.

There are several points to remember when using Skin. First, you can only apply the skin to shapes with the same number of points, so use Copy and Paste to duplicate the first object. Secondly, you must place the outline shapes in the order in which they were created. If you mix up the second and third shapes, for example, you will cause the skin to 'double back' on itself. This effect can be useful sometimes. Finally, you don't have to have each outline in exactly the same shape: as long as the number of points is the same, that is sufficient. **Pic 4** is a rather bizarre object created using Skin applied to some differently shaped and ordered outlines.

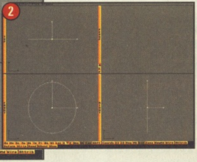


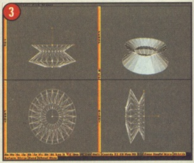


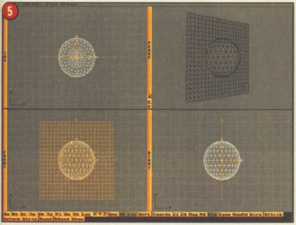
Slice (Object Menu)

Understanding Slice is easy but using it can be tricky. Slice creates new objects by combining two existing objects. The easiest example is a Sphere being intersected by a Plane. Once Slice is applied there will be four objects: the Plane with a hole in it, a single disk and two hemispheres. **(See pics 5, 6)**

When setting up your objects, you may occasionally see an error message like the one in **Pic 7**. Don't panic! If this happens all you need to do is select one of the objects and move it very slightly. You should be able to make any object slice in this way and it's



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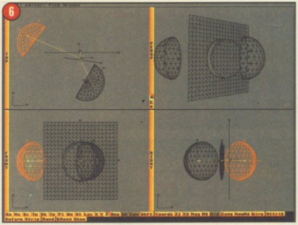
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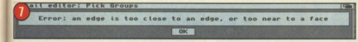
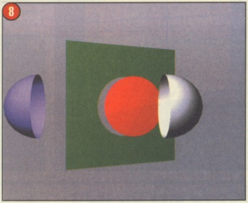

7

ail editor: Pick Groups

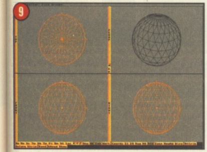
Error: an edge is too close to an edge, or too near to a face


8

perfect for creating complicated shapes quickly and easily. You may sometimes see extra lines around some of the objects. Imagine inserts these lines to make a smooth edge for the new objects. For example, extra lines are required in the Plane object to make a circular-shaped hole in it. As you can see from the render, these extra lines don't alter the final image. **(See pic 8)**

Merge (Object Menu)

The 'Merge' command can be used after Slice to clear up any unnecessary faces which may have been created. It's also useful when loading in objects from earlier versions of Imagine or objects created by other programs. If, when rendering, you see error messages about a particular object, apply Merge to each of the parts in turn.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Join (Object Menu)

Join creates a new object by permanently linking together the selected shapes. Unlike Group which creates a temporary macro-object, Join will link the objects so that they have a single, common axis. The Join cannot be undone, so think carefully before applying it. Also, some physical attributes (such as Specularity and Roughness) will be lost. (Although the colour, reflectivity and transparency are not lost). Join is sometimes useful as a last-ditch tool to load Imagine objects created by other programs.

Split (Object Menu)

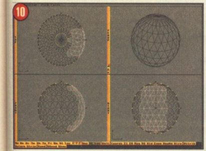
Although a Join cannot be undone, Split gets pretty close. As you might expect, Split takes a single object and divorces it into two parts, each with their own axis. During the splitting process some faces may be lost if you select 'Lines' rather than 'Faces', although this can make for a rather interesting effect. **(See pics 9,10,11)**

To select the region of the object you want to Split, you'll need to change from Group editing to Point, Line or Face editing. To do this, select the Object and then use the Mode Menu. Now select Split. Here is Split being used to take a chunk from a Sphere. **(See pic 12)**

Fracture (Object Menu)

Fracture can be used in two ways: either at object or point level. When editing objects at the point level, it's sometimes desirable to add more detail. For example, you might want to make a corner smoother. By applying Fracture, the face will be split into smaller facets and you can edit in more detail. **(See pics 13,14,15)**

When applied to an entire object, Fracture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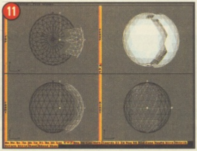
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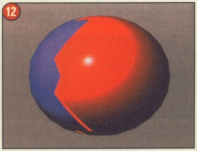
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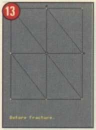
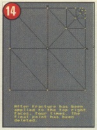
Continued overleaf ▶▶▶

13



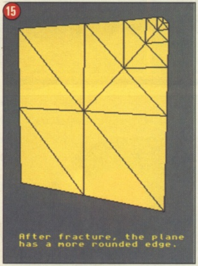
Before Fracture.

14



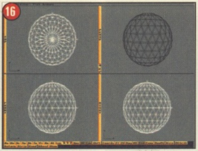
After Fracture has been applied to the top right faces, four times. The final point has been deleted.

15



After fracture, the plane has a more rounded edge.

16



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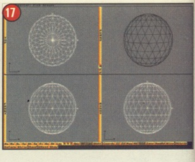
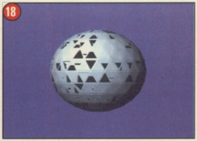


causes the individual facets to disconnect from each other. You are asked for a scaling factor and this determines the overall size of the new object. Fracture can be used with Particles for some amazing effects, but more on that in later tutorials.

Pics 16 and 17 show what happens when you Fracture a Sphere, using a factor of 1.2 to spread the facets out a little. If you take the fractured Sphere, and then overlay it on a non-fractured Sphere of the same size but different colour, you get rather a strange effect. When you make the fractured sphere semi-transparent and add a texture to the inner sphere, well it just gets like something from the cover of a science-fiction novel. **(See pics 18,19)** ■

John Kennedy

18



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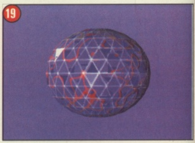


Come into the light

It isn't enough to create nice models and just plonk them down in a scene. Correct lighting is vital for best results.

There are several ways to improve upon a typical space scene. Increasing ambient lighting levels works but the image can become 'washed out'. Try adding some extra light-sources such as a nearby planet or illuminating the spaceship with spotlights. An interesting background also does wonders. **(See pics 1,2,3,4)**

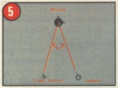
Lighting other types of scene is trickier. In the real world, the sun provides lighting as well as hundreds of other sources. A professional photographer gets around this by using a studio to control all light sources and their reflections. There are a multitude of ways in which lights can be arranged, but there are some golden rules. It's important to keep track of the location of the light source in relation to the camera: imagine a line from the camera to the object, and another line from the light source to the object. This angle is all-important: too small and the object will appear flat, too large and it won't be illuminated at all. **Pics 5 and 6** are some examples of light and camera positioning.

Overall, for best results, use at least two light sources. The main light source (to make sure the object isn't flat) and a second light source (to brighten the shadows) which is further away or less bright. If you are rendering a 'real world' scene such as a room, you'll want to add light sources where ever there are real light bulbs or windows. Dealing with only artificial lights is straightforward. Most rendering programs allow objects to be turned into lights: this means that creating a realistic florescent strip-light is a matter of creating a long, white, bright cylinder. Likewise, light-bulbs can be created from white spheres. You will need to experiment with ambient lighting settings for best results.

Windows can be a problem. If your want them to be a light source you have to rely on your particular image rendering program. Some will model rectangular light sources very well, others will allow you to cheat and apply special textures to light sources.

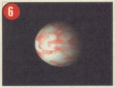
Of course, if the end result looks good then it doesn't matter how you did it!

5



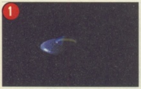
▲ Now the angle has been reduced

6



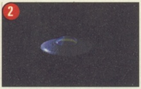
▲ More of the sphere is illuminated.

1



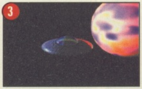
▲ Dark skies and the spaceship doesn't show up particularly well.

2



▲ Add some ambient lighting and you can see more – although not necessarily better.

3



▲ Make the nearby planet a light-source and more detail is revealed.

4

▲ Ditch the tiny stars in favour of a hand-crafted purple star-field for best results.

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Tidy The House (6-10)	10.99	------	------

JUNIOR ADVENTURES

Robin Hood (8+)	13.99	------	------
Scrooge - Xmas Carol (8+)	13.99	------	------
The Three Bears (5-10)	13.99	------	------
Wind In The Willows (6+)	13.99	------	------
Wizard Of Oz	13.99	------	------

JOYSTICKS & ACCESSORIES

AAR=ANALOG ADAPTER REQUIRED

4 Player Joystick Adapter	4.99
Amitek Fusion Genlock	94.99
Analogue Joystick Adaptor	4.99
Automatic Joystick/Mouse Splitter	14.99
Competition Pro Xtra Clear Joystick	10.99
CH FLIGHTSTICK (ANALOGUE) **(AAR)**	**29.99**
Cruiser Joystick	7.99
External 880K Floppy Drive	59.99
GRAVIS ANALOG JOYSTICK **(AAR)**	**19.99**
Internal 880K Floppy Drive A500	47.99
Internal 880K Floppy Drive A600/A1200	49.99
JUPITER JOYSTICK	**7.99**
Mouse 300 dpi 2 Button	10.99
Mouse 400 dpi 2 Button	14.99
Mouse 400 dpi 3 Button	16.99
Mousemat	1.99
Joystick/Mouse Extension Cable	6.99
Joystick Y Splitter	4.99
Logic 3 Delta Ray Autofire JY156	10.99
Logic 3 Alpha Ray - Autofire	10.99
Logic 3 Sigma Ray - Autofire	12.99
POWER SUPPLY UNIT	**39.99**
Quickjoy Pedals SV129	9.99
Quickjoy II Turbo SV124	10.99
Screenbeat 3 Speakers SB203	12.99
Screenbeat 4 Speakers SB204	11.99
Screenbeat 5 Speakers SB205	11.99
Screenbeat 25 Speakers SB 225	21.99
Screenbeat Pro 50 Speakers SB250	32.99
Screenbeat RCA Adapter Cable	1.99
Screenbeat Power Supply	7.99
Thrustmaster XL Joystick **(AAR)**	27.99
Zipstick Super Pro Autofire Joystick	10.99

AMIGA CDROM

So Ho CDROM

Amiga Tools 3	24.99
Amiga Utilities 2	19.99
Aminet Set 1 or 2	24.99
Aminet 7,8,9,10,11 or12	14.99
Aminet 94-02	9.99
Amos CD	19.99
Animations	19.99
Artwork Colour	9.99
C-64 Sensations	19.99
CD Boot	32.99
CD Write	32.99
Clip Art	9.99
Fonts	9.99
FreshFonts 1 or 2	19.99
Gateway	9.99
Gifs Galore	12.99
Giga Graphics	24.99
Gold Fish 1 or 2	24.99
Graphics Sensation	14.99
Hottest 4	9.99
Hottest 6	14.99
Illusions in 3D	4.99
Meeting Pearls 3	9.99
Multimedia Toolkit 2	24.99
Network CD2	14.99
Octamed 6	24.99
Professional Fonts & Clipart	9.99
Professional IFF & PCX Library	19.99
Professional Utilities 1-1500	19.99
Sound Library & GRX Library	19.99
Textures 1	32.99
The Beauty f Chaos	9.99
The Colour Library	9.99
The Light Rom	32.99
The Light Rom 2	32.99
The Light Works	24.99
UPD Gold	24.99
World of Clipart	9.99
World of Games	9.99
World of GIF	9.99
World of Photo	9.99
World of Sound	9.99
World of Video	9.99

Glamour Titles - Over 18 Only Amiga CDROM

Adult Sensations	19.99
Asian Dream Girls 1 or 2	14.99
Asian Pleasures 1 or 2 or 3 or 4	29.99
Coloureds & Asians	10.99
European Dream Girls 1 or 2 or 3	14.99
Hot Pie	9.99
Hot Spot Women 1 or 2 or 3	15.99
Oriental Fantasies 1 or 2 or 3	15.99
Photo Studio	15.99
Pixels of Passion 1 or 2	29.99
Sexy Sensations	19.99
Scandanavian Cover Girls 1 or 2 or 3	15.99
Women From Lesbos 2	15.99
World Of Pinups Vol 1	9.99
World Of Pinups Vol 2	12.99

RECYCLED BLANK 3.5" DISKS

10 @ 2.99 20 @ 5.50 50 @ 12.50 100 @ 22.50

PD & Shareware

BUSINESS

	3.5
B001 A-Gene (1 meg)	1.25
B004 Ami Cash	1.25
B005 Amibase Prof	1.25
B006 600 Business Letters	1.25
B011 A-Gragh	1.25
B013 Analytic ALC	2.50
B015 Stock Analyst	1.25
B017 Budgets V1.34	1.25

EDUCATIONAL

	3.5
E002 The Bible (4 Disks)	4.99
E003 World Databank	1.25
E006 Total Concepts	1.25
E007 Bank Talk	1.25
E008 Dunks DTP	1.25
E009 Colour The Alphabet	1.25
E010 The Highway Code	1.25
E011 Junior Maths	1.25
E012 Electronic Train Set (1 MEG)	1.25
E013 Learn & PLay 1	1.25
E014 Learn & Play 2	1.25
E015 Treasure Hunt	1.25
E016 Wraithed One	1.25
E017 Story Land 2	1.25
E018 Wotitsname	1.25

CREATIVE

	3.5
C002 Label Designer	1.25
C003 Super Fonts	1.25
C005 Deluxe Paint Tutor	1.25
C006 Shadow Demo Maker	1.25
C009 Lllinois Labels	1.25
C011 Word Power	1.25
C012 Font Farm	1.25
C013 Wine Maker	1.25
C014 Assassins	1.25
C016 Garden Designer	1.25
C017 X Beat	1.25

UTILITIES

	3.5
U003 The Workshop	1.25
U008 Asteroid	1.25
U010 Autograph	1.25
U014 Panasonic Printer Driver	1.25
U015 H.P. Printer Driver	1.25
U016 Seikosha Printer Driver	1.25
U017 Cannon & Citizen Printer Driver	1.25
U020 Bad Format	1.25
U021 Amiga Beginers Guilde	1.25
U022 Better Bench V1.2	1.25
U023 De-grader 500 600 1200	1.25
U024 Extermin-8 Virus Killer	1.25
U028 Action Replay For The 600	1.25
U029 Amiga Tutorial	1.25
U030 A.C.E.S Database	1.25
U038 Number Pad For 600	1.25
U039 Calorie Base	1.25
U040 J R Comm	1.25
U041 Race Raptor	1.25
U042 Pools Pools V2	1.25
U043 Training Log	1.25
U044 Mastie Niblick	1.25
U045 D-Solve	1.25
U047 Relo Kick v1.4	1.25
U048 Procad Electroid	1.25
U049 Dividends Winner	1.25
U052 Essential Virus Killer	1.25
U053 Soccer League	1.25
U054 TERM V 4.0	3.75
U055 Virus Checker V 7.18	1.25

DEMOS & RAVE

	3.5
D001 Night Breed	1.25
D002 Iron Maiden Slideshow	1.25
D003 Good Morning Vietnam	1.25
D004 Creep Show	1.25
D005 Fraction Horror Show	1.25
D006 Total Recall Slideshow	1.25
D007 Evil Dead (1 meg)	1.25
D008 Batman Cartoon	1.25
D009 Robocop	1.25
D010 Viz Slideshow	1.25
D011 Not The 9 Oclock News	1.25
D012 Raider Of The Lost Ark	1.25
D013 Predator Demo	1.25
D014 Safe Sex	1.25
D015 Stealthy 2 (1 meg)	1.25
D016 Jimi Hendrix Slideshow	1.25
D018 Holsten Pils	1.25
D019 Popeye Meets The Beach Boys	1.25
D021 Moonwalker Demo	1.25
D022 Mike Tyson (1 meg)	1.25
D024 Terminator	1.25
D026 Life Of Brain	1.25
D027 The Garfield Slideshow	1.25
D028 Teenage Turtles Slideshow	1.25
D029 WWF Slideshow	1.25
D030 The Gathering GFX	1.25
D041 Enterprise Leaving Dock	1.25
D042 Girls of Sport	1.25
D043 The Run (1 meg)	1.25
D046 How To Skin A Cat	1.25
D047 Calendar Girls	1.25
D049 Techno Warrior	1.25
D050 Jesus Loves Acid	1.25
D052 Rave Length	1.25

MUSIC

	3.5
M028 Pink Floyd The Wall Remix	1.25
M029 No Limits	2.50
M030 Cybernex	1.25
M031 Motiv-8	1.25
M032 Sound Track Sampler (4 disks)	4.99

GAMES

	3.5
G014 Zalycon	2.50
G015 Earth Invaders	1.25
G017 Mayhem	1.25
G018 The Fun House	1.25
G019 Amos Games	1.25
G020 Games Galore	1.25
G021 Quadrix (pal only)	1.25
G022 Buzzard	1.25
G023 Break Out	1.25
G024 Demolition Mission	1.25
G025 Lady Bug (not 600 or 1200)	1.25
G026 Depth Charge	1.25
G029 Dual	1.25
G032 Relayer	1.25
G034 Top Secret	1.25
G035 Flagcatcher	1.25
G036 Wizwar	1.25
G038 Calculus Combat	1.25
G039 Blob	1.25
G040 Sector	1.25
G041 Gush	1.25
G042 Smurf Hunt	1.25
G044 Quiz Master & Editor	1.25
G045 Revenge Of The Mutant Camels	1.25
G047 White Knight	1.25
G048 Wibble World Giddy	1.25
G051 Atlantis	1.25
G053 Legend Of Lothian	1.25
G054 Iron Clads (not 1200)	2.50
G055 Wizars Wars	1.25
G056 Fortress (demo)	1.25
G057 Neighbours Adventure	2.50

SPORTS

	3.5
SP001 Top Of The League	1.25
SP004 Mr.Men Olympics	2.50
SP005 Slamball	1.25
SP006 Strikeball	1.25
SP007 Amos Cricket	1.25

SIMULATIONS

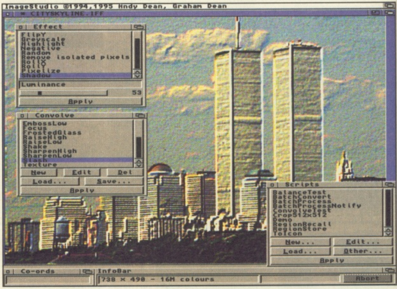
	3.5
SM001 5 Simulation Games (not 1200)	1.25
SM002 Return To Earth	1.25
SM003 Napoleonic Warfare Sim v5	1.25
SM004 Wheel of Fortune (not 1200)	1.25
SM005 Card Sharp	1.25
SM006 Sub Attack	1.25
SM007 Roulette	1.25
SM008 Act Of War	1.25
SM009 Micro Market	1.25

Next Month ...

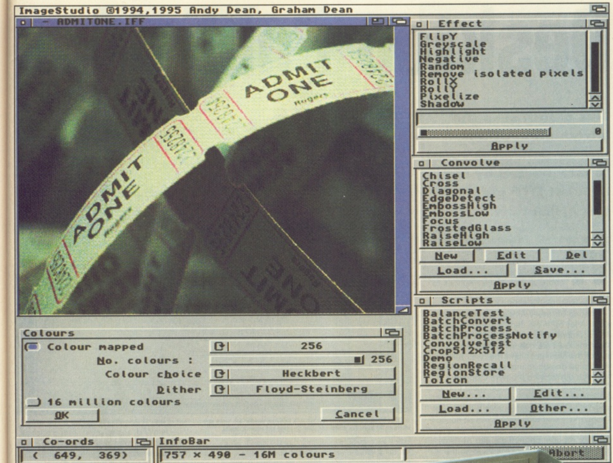
ImageStudio!

CU AMIGA MAGAZINE

It's yours next month only with CU Amiga Magazine: ImageStudio, the complete full version of the highly acclaimed 24-bit graphics and image processing package is coming your way! While some graphics packages limit your Amiga to just 256 colours, ImageStudio works in 16 million colours whatever Amiga you have, performing functions ranging from colour reductions and resizing to flamboyant special effects. The built-in virtual memory is a Godsend, allowing you to work on enormous images far in excess of your RAM capacity, while its intelligent loaders and savers can handle just about any graphics format you're likely to come across. Ideal for all kinds of graphics work, ImageStudio can bend to perform all manner of jobs. ImageStudio could well be the answer to your prayers, but don't just take our word for it, have a good look at the screenshots here and check out these amazing features:


ImageStudio ©1994,1995 Andy Dean, Graham Dean
* CITYSKYLINE.IFF
Effect
FlipY
Greyscale
Highlight
Negative
Random
Remove isolated pixels
RollX
RollY
Pixelize
Shadow
Luminance
53
Apply
Convolve
EmbossLow
Focus
FrostedGlass
RaiseHigh
RaiseLow
Shake
SharpenHigh
SharpenLow
Slash
Texture
New
Edit
Del
Load...
Save...
Apply
Scripts
BalanceTest
BatchConvert
BatchProcess
BatchProcessNotify
ConvolveTest
Crop512x512
Demo
RegionRecall
RegionStore
ToIcon
New...
Edit...
Load...
Other...
Apply
Co-ords
InfoBar
738 × 490 - 16M colours
Abort

- **Works in 24-bit for the ultimate in picture quality**
- **Display images in up to 256 colours on an AGA machine**
- **Fast internal picture viewer**
- **Import IFF-ILBM, BMP, GIF, JPEG, PCX and TARGA**
- **Export IFF-ILBM (including HAM formats), BMP, GIF, PCX, TARGA, EPS and JPEG**
- **Copy and paste images to and from the Clipboard**
- **Crop pictures with ease**
- **Undo and Redo operations**
- **Change the colour balance of images**
- **Reduce the colours of an image (great for doing Web graphics)**
- **Scale pictures**
- **Sharpen, Blur, Remove Pixels, Create Shadows, Emboss and lots more special effects**
- **Convert batches of images from one format to another**
- **Loads of pictures on the CUCD for you to muck around with**


ImageStudio ©1994,1995 Andy Dean, Graham Dean
- ADMITONE.IFF
ADMIT ONE
Effect
FlipY
Greyscale
Highlight
Negative
Random
Remove isolated pixels
RollX
RollY
Pixelize
Shadow
0
Apply
Convolve
Chisel
Cross
Diagonal
EdgeDetect
EmbossHigh
EmbossLow
Focus
FrostedGlass
RaiseHigh
RaiseLow
New
Edit
Del
Load...
Save...
Apply
Scripts
BalanceTest
BatchConvert
BatchProcess
BatchProcessNotify
ConvolveTest
Crop512x512
Demo
RegionRecall
RegionStore
ToIcon
New...
Edit...
Load...
Other...
Apply
Colours
OK
Cancel
Co-ords
InfoBar
Abort

Colour mapped: 256

No. colours : 256

Colour choice: Heckbert

Dither: Floyd-Steinberg

16 million colours

(649, 369)

757 x 490 - 16M colours

Also starring...

We've got a top magazine lined up for you next month. The April issue will be packed as usual with all the regular tips and tutorials, along with the unrivalled reviews sections. The desktop publisher's favourite PageStream 3.2 is currently undergoing extensive soak testing in our review lab; the results are due back on March 15th. We'll also be bringing you a full review of a brilliant new gizmo for anyone who wants to turn their Amiga into an interactive music video machine. Rather than spoil the surprise, we'll refrain from telling you about some of the even bigger reviews we're currently working on. Let's just say we know you won't be disappointed.

Our DIY tower conversion series is set to move up a gear as we take a look at the just-available towers from Blittersoft and tackle the tricky issue of re-locating the entire Amiga motherboard into a tower case. All of this, plus an investigation into one of the most exciting technological developments of the past few years: Internet radio. It's cheap, it's easy, it's fun, but is it legal?

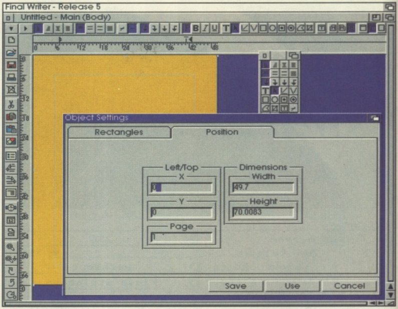
Right, that's all we're telling you for now. It wouldn't do to let all of our cats out the bag now would it? So make sure you don't miss the April issue of CU Amiga Magazine for all of this and much more besides.

You know it makes sense.

APRIL ISSUE ON SALE 15TH MARCH

Desktop Publishing

This month sees the introduction of a new regular column devoted to DTP hosted by our resident DTP guru Larry Hickmott.



Final Writer - Release 5
Untitled - Main (Body)
Object Settings
Rectangles | Position
Left/Top X: 0
Y: 0
Page: 1
Dimensions Width: 49.7
Height: 70.0083

▲ When trying establish what your printer's hardware margins are, make sure you cover an entire A4 sheet with a coloured box. This will tell you where on the paper the printer can place an image and where it cannot.

Welcome to the first in a series of workshops about publishing. In this instalment, we are going to take a detailed look at printing and come up with some solutions to common problems that tend to crop up again and again.

Printing for many Amiga owners is hard work. A lot of this is because there is very little documentation on the subject available. Most manuals are mainly written for the PC and/or the Macintosh and the ones that cover the Amiga do not go into sufficient detail to help you out when a problem crops up.

However, it would be impossible to produce a manual that addressed all your printer's problems as most sources of difficulty are normally due to an error with an application not the printer. Also, most printer drivers used for modern printers are part of third-party enhancement packages and so the guidelines for printing become much more complex depending not only on what enhancement package you use but also which printer.

It may sound complex but we're here to try and address the more frequent problems. To begin with here's one solution to the common problem of trying to get your final printed page to resemble the one on your monitor (or TV).

Ready, set, go ...

The aim here is to help you make sure you can get all the elements on-screen to print out where you want them to. The first step is to find out what your printer's hardware margins are. Most, if not all printers, have an area around the edges of the paper they cannot print on. This is known as the printer's hardware margins or printable area.

Finding out your printer's hardware margins is fairly simple. Most manuals for a printer will have the figures, however even these may not be right for you depending on the printer drivers you are using.

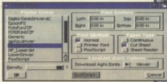
Here is a more reliable method: start off by making sure you have the correct printer driver selected in Printer Prefs. Run the application you use most such as a word processor. In this tutorial, I'm using Wordworth 6 and Final Writer 5. Create an A4 page if one does not already exist. In Final Writer, go to the 'Page... ' item in the Layout menu. If you're using Wordworth 6, then choose 'Print Setup' from the Project menu.

The attributes you need to change in Final Writer are in the Print Area part of the requester. Make sure 'Custom' is selected and the figures are all zeroed. In Wordworth, check all the print borders are set to zero. Final Writer users click on Use while those with Wordworth chose OK.

You are now free to cover the entire page with a coloured box. It doesn't matter how you do this, whether it's one box or several boxes. Once you have done this, print the page. The white areas around the edges that are not printed are the hardware margins of your printer/printer driver combination. Measure these margins on the left, top, bottom and right and write down the figures in your printer's manual or keep the figures somewhere safe.

Now re-select the 'Layout/Page' menu item in Final Writer or 'Printer Setup' in Wordworth. Take the figures you have come up with and enter them into the appropriate gadgets. To test whether you have been successful, place an object on the page within in the printable area. For example you could use a box that is two inches from the left and two inches from the top of the page. Print the page and measure the distance between the edges of the paper and the box. They should now match the figures you had on screen.

If they don't, try changing the 'Paper Format' in Printer Prefs and see if that makes

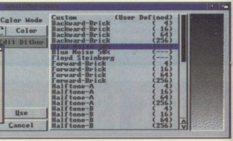


Printer Driver:
Digita-DeskDriver4C
EpsonP2
FotoFunF2P
FOTOFUNIIF2P
Generic
gpfax.driver
HP_LaserJet
LaserDriver
PostScript

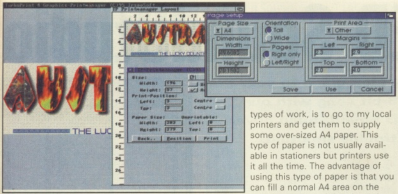
Print Borders
Left: 0.00 in
Top: 0.00 in
Right: 0.00 in
Bottom: 0.00 in

Print Method: ● Normal ○ Printer Font ○ PostScript
Paper Type: ○ Continuous ● Cut Sheet ○ Sheet Feeder
LaserJet 3/4/5 Options
Download Agfa Fonts: Never
Density: 7

▲ In Wordworth, a printer's hardware margins are put into the 'Print Borders' gadgets in Printer Setup.



```
Custom             (User Defined)
Backward-Brick              (  4)
Backward-Brick              ( 16)
Backward-Brick              ( 64)
Backward-Brick              (256)
Blue Noise 38%              (---)
Blue Noise 58%              (---)
Floyd Steinberg             (---)
Forward-Brick               (  4)
Forward-Brick               ( 16)
Forward-Brick               ( 64)
Forward-Brick               (256)
Halftone-A                  (  4)
Halftone-A                  ( 16)
Halftone-A                  ( 64)
Halftone-A                  (256)
Halftone-B                  (  4)
Halftone-B                  ( 16)
Halftone-B                  ( 64)
Halftone-B                  (256)
```



Page Size: A4
Orientation: Tall
Pages: Right only
Print Area: Other
Margins: Left 2.3, Right 2.9, Top 2.0, Bottom 4.0

Size: Width: 196, Height: 57
Print-Position: Left: 3, Top: 3
Paper Size: Width: 203, Height: 279
Unprintable: Left: 0, Top: 0

▲ To get the best quality when printing photographs use utilities like the Print Manager in TurboPrint and the Studio Picture Printing application with Studio II Professional.

any difference. Or, if that doesn't work, print the same page with the box two inches from the left and top with the 'Print Borders' or Print Area Margins' set to zero like before and see how much difference that makes.

Filling your page

Another common problem is not being able to print to the bottom of a page. This is quite easy to fix if you're prepared for some sticky business, although don't try the following with a laser printer.

To print to the bottom of a page, you need to fool the printer that the page you have in your printer is longer than it is. So, cut a strip of paper about 2" high and slightly thinner than the normal width of your page and tack it onto the under side of your page using a type of adhesive that leaves no residue.

Set your page to be longer than it is in the various printer preferences in Workbench and your application. Next print a page with elements that stretch right to the bottom of the page. The margin necessary at the bottom of the page will be provided by the temporary strip which can be removed once you have finished.

Another method and one I prefer for some types of work, is to go to my local printers and get them to supply some over-sized A4 paper. This type of paper is not usually available in stationers but printers use it all the time. The advantage of using this type of paper is that you can fill a normal A4 area on the oversize paper and then have the finished work trimmed either by the printers or by doing it yourself using a suitable cutting method. This requires a printer that can take oversized paper so make sure your particular printer can before ordering materials.

Better looking

Finally, I am constantly bombarded these days with questions about how to get photographs to print looking as good as the samples you see in your local PC shops. The solution is twofold.

One is to get a printing enhancement package with the best printer drivers available for your printer. The other is to experiment with the dithering options. Both Studio II Professional and TurboPrint offer excellent dithers to help you produce super cool-looking photographs.

Using the standard Workbench preferences, when you try and print continuous tone images (such as photographs) you'll end up with dark, muddy looking images with what is known as contouring. This is simply a term used to describe the visible steps noticeable when a printer attempts to simulate the change of colour from one shade to another. The best results in producing smooth gradients will come from printing them using a print enhancement package rather than an Amiga without such software.

The use of images on the page has changed dramatically since my days working for a newspaper when everything was decidedly sticky cut and pasting elements the traditional way.

In case you're wondering how I found all about getting the right margins and printing to the bottom of the page, it was by experimenting and taking note of what happens when I changed certain parameters and that fellow Amigians, is how you too can find out more about how your Amiga and printer work together. Just be sure to have plenty of patience. You'll need it!

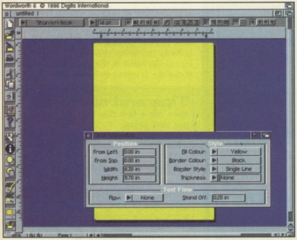
In next month's workshop, the topic of discussion will be graphics formats for DTP. See you then! ■

Larry Hickmott

Hold the front page

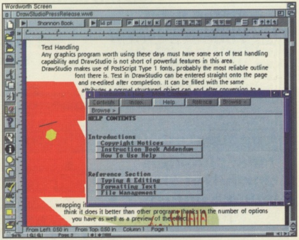
Digita (tel: 01395 270 273) tell me that the rumours that they have sold out of manuals for Wordworth, are untrue. Those who have upgraded to version 6 from a version other than 5 (like 3 for example), can buy the version 5 manual for a fiver. A truly remarkable offer! The Wordworth 6 manual is on-disk only. No printed version is available as far as I know.

News from SoftLogik is that PageStream 3.1 and 3.2 are out and shipping. I understand there have been some staff changes at SoftLogik which may have affected whether you already have yours but the really excellent news is that new versions of this heavyweight package are still being developed and 3.3a is the latest I have heard of. More news soon in CU Amiga Magazine with a full review.



From Left: 0.00 in
From Top: 0.00 in
Width: 8.20 in
Height: 11.70 in
Fill Colour: Yellow
Border Colour: Black
Border Style: Single Line
Thickness: None
Flow: None
Stand Off: 0.25 in

▲ In Wordworth, use the information panels to ensure the box covering the page is the right size and in the right position.



Text Handling
Any graphics program worth using these days must have some sort of text handling capability and DrawStudio is not short of powerful features in this area.
DrawStudio makes use of PostScript Type 1 fonts, probably the most reliable outline font there is. Text in DrawStudio can be entered straight onto the page and re-edited after completion. It can be filled with the same

wrapping i
think it does it better than other programs thanks to the number of options you have as well as a preview of the effect.

HELP CONTENTS

Introductions
Copyright Notices
Instruction Book Addendum
How To Use Help

Reference Section
Typing & Editing
Formatting Text
File Management

From Left: 0.50 in From Top: 0.60 in Column 1 Page 1

▲ A little tip for those requiring manuals for Wordworth 6. New functions and so on are taken of care via on-line help while printed manuals for Wordworth 5 are still available from Digita International.

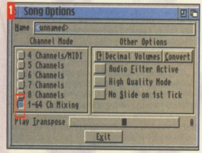
OctaMED SoundStudio

PART 2

Here's a step by step guide to your first multi-channel 16-bit song with our superb OctaMED SoundStudio cover disk plus some trouble shooting.

With a program as feature-packed as SoundStudio it can be hard to know where to start. This month you'll see we've gone for a step by step guide to producing a multi-channel 16-bit song rather than embarking on a tour of the various sections of the program. Hopefully this will get you up and running in as little time as possible. In order to get SoundStudio to work just as you want it's important that you have all the settings adjusted accordingly – one wrong move and you could be foxed for hours wondering why nothing is happening! So take a few minutes to run through the routine here and you'll soon be familiar with all the major controls. Seasoned OctaMED users will be up to speed with some of the process, but bear with it and keep an eye out for the new bits. Right then, here we go.

1


Song Options
Channel Mode
Other Options
4 Channels/MIDI
5 Channels
6 Channels
7 Channels
8 Channels
1-64 Ch Mixing
Decimal Volumes
Convert
Audio Filter Active
High Quality Mode
No Slide on 1st Tick
Exit

Name <unnamed>

● 1-64 Ch Mixing

Play Transpose 0

Step 1

Load SoundStudio and select Set Options from the Song menu. Click on the button marked 1-64 Ch Mixing, then Exit. This puts the program into multichannel mode.

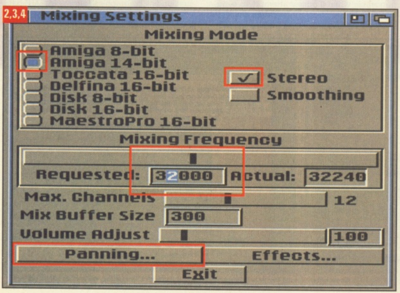
Step 2

Select Mixing Settings from the Settings menu. This is where you choose your output mode. If you have one of the sound cards listed in the box then select that. Otherwise click on either Amiga 8-bit or Amiga 14-bit. The 14-bit output is recommended. Set the Stereo button to on (so that it displays a tick).

Step 3

From the Mixing Settings panel you can now select the mixing frequency If you are using Amiga 8-bit or 14-bit output and are using a standard PAL or NTSC screenmode (such as Hi-Res or Interlace rather than Productivity for example) you will be limited to a maximum mix rate of 28370Hz. If you have a multi-sync monitor you can change to a non-video screen mode and make use of higher rates. A higher mix rate leads to better quality sound.

2,3,4


Mixing Settings
Mixing Mode
Amiga 8-bit
Amiga 14-bit
Toccata 16-bit
Delfina 16-bit
Disk 8-bit
Disk 16-bit
MaestroPro 16-bit
Stereo
Smoothing
Mixing Frequency
Panning...
Effects...
Exit

● Amiga 14-bit

☑ Stereo

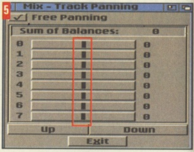
Requested: 32000 Actual: 32240

Max. Channels 12

Mix Buffer Size 300

Volume Adjust 100

5


Mix - Track Panning
Free Panning
Up
Down
Exit

☑ Free Panning

Sum of Balances: 0

0	0
1	0
2	0
3	0
4	0
5	0
6	0
7	0

Step 4

Set the Maximum Channels slider to 12. This will allow you to use up to 12 tracks at once. You can come back and alter this setting at any time if you want to use more or fewer tracks during the course of a session.

Step 5

Click on the Panning button and drag each of the channel panning sliders to the centre. It's a good idea to have everything panned to the middle before you start. You can then come back to this section and pan out the tracks as and when required.

Step 6

Select Set Properties from the Block menu. Move the Tracks slider up to 12. You could also raise the Cmd Pages figure to 2 or more. This gives the current block additional command pages, which are extensions of the original block that allow you to put more than one command on each line of a track. When you have more than one command page, use Shift and Tab together to cycle through the pages.

Step 7

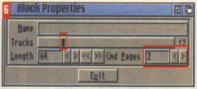
Now you can load some samples and start to build up your song. Use the Sample List, the Instrument menu or the Disk gadget (directly above the SList button on the main control

Tips and shortcuts

Here are a few tips and shortcuts to get you going.

Navigate block	- Cursor keys
Select next/previous block	- Shift and Cursor Down/Up
Select next/previous instrument	- Shift Cursor Right/Left
Edit mode on/off	- Escape key
Change octave	- F1-F5
Skip through block	- F6-F10
Highlight line	- Tab
Select Command Pages	- Shift Tab
Mark Range	- Drag left mouse button

6


Block Properties
Name
Tracks
12
Length
64
Cmd Pages
2
Exit

panel) to load a sample. This can be an IFF (8SVX), AIFF, WAV, VOC or RAW sample. Stereo samples can be used just like mono samples but will retain their stereo panning, even though they only occupy a single track. If you're familiar with OctaMED you can now go ahead and create your song as normal. Newcomers are best advised to follow the last few steps and take a look at the General Operations panel for some tips.

Step 8

Making up a song from your samples is fairly straightforward. The idea is you program a series of blocks and then arrange them into a pattern using the Playing Sequence section. So once you've made your first block, go to the Block menu and select New-Append to add a new blank block. Use Shift and Cursor Down to move to the new block and then program this as before.

Step 9

When you have more than one block, click on the Sq button on the Information panel to bring up the Playing Sequence panel. Use Shift and the cursor keys to select different blocks and insert them in the sequence in whatever order you like. Select Save from the Project menu every now and then to save your song to disk. Leave all the save settings as they are for now.

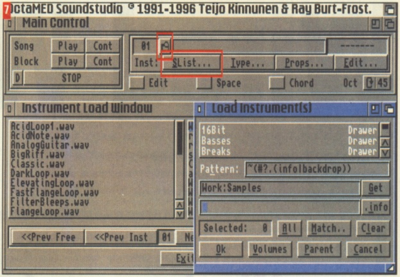
Trouble shooting

There's nothing worse than hitting a problem and having absolutely no idea what's gone wrong. We'll finish off this month's guide with a few solutions to common problems.

Can't allocate audio channels

Another program is already using the Amiga audio channels, even though this other software may not be making a sound at the time. You will need to find the software using the channels and close it down before you can play a song from SoundStudio through the normal Amiga channels.

7


OctaMED Soundstudio © 1991-1996 Teijo Kinnunen & Ray Burt-Frost.
Main Control
Song
Play
Cont
Block
Play
Cont
D
STOP
01
Inst:
SList...
Type...
Props...
Edit...
Edit
Space
Chord
Oct
45
Instrument Load Window
AcidLoop1.wav
AcidNote.wav
AnalogGuitar.wav
BigRiff.wav
Classic.wav
DarkLoop.wav
ElevatingLoop.wav
FastFlangeLoop.wav
FilterBleeps.wav
FlangeLoop.wav
<<Prev Free
<<Prev Inst
01
Exi
Load Instrument(s)
16Bit
Drawer
Basses
Drawer
Breaks
Drawer
Pattern:
~(#?.(info|backdrop))
Work:Samples
Get
.info
Selected: 0
All
Match..
Clear
Ok
Volumes
Parent
Cancel

Med User Group

The official MED Users Group (MUG for short) was formed in March 1993 with the aim to provide OctaMED users all over the world with technical support for the program and a forum for their creativity and opinions.

The group produces a disk magazine around six times a year packed with the latest information about the program, modules created by members and related articles and reviews.

If you would like more information, please write enclosing an SAE to: MED Users Group, 6 Glevum Road, Swindon SN3 4AF, UK. Or you can Email them at: rjb595@soton.ac.uk

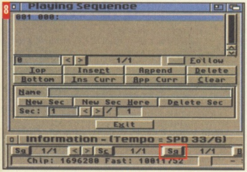
Playback is totally mangled

If you have a multichannel module loaded and try to play it back with the Song Options set to anything but 1-64 Ch Mixing, you will hear total garbage instead of the real song. Make sure you have followed all of the steps on this and the previous page to avoid this.

Samples are played too slowly

You might find sometimes you load a song and when you hit Play, half of the samples are replayed at an octave or two lower than they should. To get around this, go to the Miscellaneous selection from the Settings menu and turn on Use Mixing for both MMD mods and tracker mods. Save the settings and then reload the module.

8


Playing Sequence
001 000:
0
1/1
Follow
Top
Insert
Append
Delete
Bottom
Ins Curr
App Curr
Clear
Name
New Sec
New Sec Here
Delete Sec
Sec:
1
1
Exit
Information - (Tempo = SPD 33/6)
Sg
1/1
Sc
1/1
Sq
1/1
Chip: 1696280 Fast: 10011752

Sample editor trouble

The easiest way to set the default sample and replay rate within the sample editor is to select your preferred octave range using the keys F1 to F5, then hold down the note at which you want to sample or replay the instrument and click on the box just to the right of the numeric display marked Pitch. This saves you having to enter a numeric value into the Pitch box, which would pose the problem of entering a value which exactly matched the replay rate of one of the notes in order to retain its true pitch.

The whole system locks up

This will happen if you demand too much from your system. In other words, if you set up the program to play more tracks than the CPU can actually pump out, if you set the mix rate too high or if you invoke Smoothing mode without sufficient CPU power available. As a general rule, you won't be able to use Smoothing with realtime playback if you have more than a couple of tracks playing, even on a 68030-based system. However, smoothing should always be used when recording a section to disk, as the process does not have to be performed in real-time. If you are using an Aura sound sampler you may also experience lock ups. See the on-line documentation for more details. To exit from a lock up situation, hold down both mouse buttons.

Only four tracks are played

Even though you might have set up all of your blocks to have more than four tracks, you might find that only the first four are being played. This is likely to be due to one of two factors: either you are still in standard four channel mode (Song Options) or you have not set the Max Tracks (Mixing Settings) to the required number.

That should be enough to get you going for now. If you have any specific problems then write in to us at the normal Q+A address (see contents page) and mark your envelope with 'SoundStudio Q+A'. ■

Tony Horgan

Wired World

We're going back to basics this month as we take a look at good old fashioned text and how it can be typed in one computer screen and appear seconds later on another.

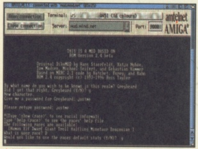
Telnet is probably one of the better known terminal packages on the Internet. It's a simple system which sends your typed text or characters to another machine and displays them there. We've covered it to a degree in a previous Wired World tutorial. However, this time we'll use a Telnet client to access other services apart from standard Telnet services such as BBSes and look at how we can, for example, read our Email using it.

Many of you will have used a terminal package before so this will not be a new idea. However, not only does a terminal display received characters but they can optionally interpret special control codes to move the cursor, change colours, clear screens and more. The most popular method of doing this is via Ansi control or eight colour graphics built out of a fixed graphic character set, a bit like the C64's if you remember that.

Manual services

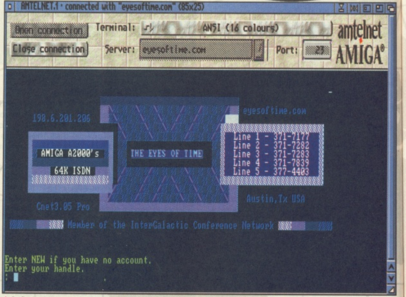
Telnet client is an excellent tool for driving certain some Internet services such as TCP/IP manually. TCP/IP requires a host and port number and with Telenet these ports may either be unused or reserved for essential services such as Email, news, FTP and WWW.

AmTelnet is a new wonderful graphical shareware Telnet client which is MUI driven and comes from the same camp that brought you AmIRC, AmFTP and Voyager. It works great on all flavours of AmiTCP and Miami. It's on the cover CD-ROM of this month's edition, just check the usual Wired World drawer in the magazine directory. You can also find AmTelnet on the Aminet at comm/tcp/ AmTelnet11.lha.



```
THIS IS A MUD BASED ON
ROM Version 2.4 beta

Original DikuMUD by Hans Staerfeldt, Katja Nyboe,
Tom Madsen, Michael Seifert, and Sebastian Hammer
Based on MERC 2.1 code by Hatchet, Furey, and Kahn
ROM 2.4 copyright (c) 1993-1996 Russ Taylor

By what name do you wish to be known in this realm? Greybeard
Did I get that right, Greybeard (Y/N)? y
New character.
Give me a password for Greybeard: justme

Please retype password: justme

Type 'show (race)' to see racial informati
Type 'help (race)' to see the races' help file
The following races are available:
  [Human Elf Dwarf Giant Troll Halfling Minotaur Draconian ]
What is your race? D
Would you like to use the races default stats (Y/N)? y
```

▲ **MUDs, gosh they're fun. Like a text based adventure except there's a whole lot of other people playing at the same time.**



```
198.6.201.206                                    eyesoftime.com
                                               Line 1 - 371-7177
   AMIGA A2000's        THE EYES OF TIME       Line 2 - 371-7282
      64K ISDN                                 Line 3 - 371-7283
                                               Line 4 - 371-7839
                                               Line 5 - 377-4403
                                                Austin,Tx USA
   Cnet3.05 Pro
          Member of the InterGalactic Conference Network

Enter NEW if you have no account.
Enter your handle.
:
```

▲ **Configuring AmTelnet to use an IBM font via MUI prefs produces the correct results in Ansi, shown here logged onto the Eyes of Time BBS.**

Emailand

For this tutorial we're going to use AmTelnet to read your Email. Installing AmTelnet is simple and once it's linked up to your ISP you are free to run it.

When the AmTelnet GUI appears change the Terminal type to VT100 as this is an ancient terminal type which will interpret some of the basic formatting codes used by Unix servers. What we're going to do is log into our local mailhost and send the special POP3 commands manually. Of course if you're a Demon customer this won't work as you have a SMTP mailserver at the moment so skip the section on SMTP.

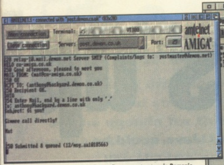
Find the name of your mail host. It's what you would have entered into an Email package such as YAM in the 'pop3 server' box. Now change the port number from the default 23 to 110, which is the POP3 service which we want for now. Another thing we need to change in AmTelnet is the settings for returns.

At the moment it's set for Amiga style LFs only, change it to Return and Linefeed as CR + LF, you'll find these two check-boxes in the settings menu.

Friendly ISP mailhost

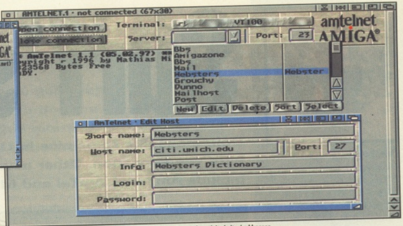
Now we're ready to go, hopefully you can do this before downloading mail so there's some Email to play with. Hit the open connection button and you should be greeted by your friendly ISP's mailhost. If not, double check the server and port settings. The POP3 protocol is simple and very easy to deal with.

Firstly you need to identify yourself. Type 'USER' followed by a space and your log-in name. For most people this will be the same as the username used to log on to your account. If you were joe@thenet.co.uk, your username is joe. Again you'll have this in your Email package already.



```
220 relay-10.mail.demon.net Server SMTP (Complaints/bugs to:  postmaster@demon.net)
HELO cu-amiga.co.uk
250 Good afternoon, pleased to meet you
MAIL FROM: (mat@cu-amiga.co.uk)
250 OK
RCPT TO: (anthony@backyard.demon.co.uk)
250 Recipient OK.
DATA
354 Enter Mail, end by a line with only '.'
To: anthony@backyard.demon.co.uk
Subject: Oi you!

Gimmee call directly!

Mat

250 Submitted & queued (12/msg.aa1010566)
```

▲ Above: sending an Email directly to a Demon customers via Demon's SMTP server.



Short name: Websters
Host name: citi.umich.edu
Port: 27
Info: Websters Dictionary
Login:
Password:

▲ AmTelnet has a nice phone-book style system for keeping all those often-visited sites' addresses.

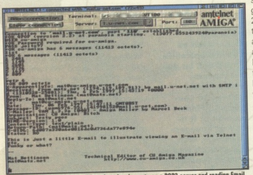
Note that you'll have to get these right without using delete etc to correct any mistakes, as the servers don't expect terminals so they don't interpret control codes.

The server will return with an OK and request a password. Put 'PASS', space and your password that you use to log in, same as your Email package again. From here you can use the 'LIST' command to obtain a list of Email currently waiting on the POP3 server. You may be lucky and given Email addresses in this list but more likely it will just be a column of two numbers with the message number far left and the byte size to the right.

You can see what the messages are without reading the whole thing by typing 'TOP', space, the message number, space and then '0'. This will show only the header of the Email. It will appear as text in Telnet. Fear not though, nothing you do here yet will delete this mail so your Email package will download this mail later anyway. If you want to read the full Email, type 'RETR', space and the message number. Neat huh?

Nasty large ones

If someone nasty sends you a rather large unwanted binary Email, it could be deleted from here without ever downloading it. When your Email package starts downloading some monster Email (and you probably don't know who it's from) you can exit/quit or in the case of less behaved clients you could reset and the mail will still be on the server. Then Telnet into the server and have a look at the header of the mail and decide whether to delete it or not.



```
+OK Password required for cu-amiga.
+OK cu-amiga has 6 messages (11413 octets).
+OK 6 messages (11413 octets)

This is just a little E-mail to illustrate viewing an E-mail via Telnet
Funky or what?

Mat Bettinson               Technical Editor of CU Amiga Magazine
mat@mats.net                       http://www.cu-amiga.co.uk
```

▲ Let's try this another way. What about logging onto an a POP3 server and reading Email direct? Anything you say sir.

Do NOT type RETR or the whole mail will be spooled down your Telnet console! If you need to read a little more of the mail to figure out if you want to download the monster, then use TOP <message number> <no of lines>, ie put TOP 1 20 to read the first 20 lines of the body (after the header which you will always get) of the first Email. If you do want to delete the mail, simply use 'DELE' and the message number to scrap it on the spot.

It's a very quick and easy way to read Email from any other machine connected to the Internet. This will work from whatever account you access the Internet through so long as you have access to a Telnet client. Beware though, other people watching will see your username and password as this isn't made invisible during log-in.

Of utmost urgency

You can also use Telnet to access SMTP servers for posting Email. This is slightly more complex and not freeform like POP3. It requires a certain sequence. So why bother? Well if you need to send an Email to somewhere urgently, there's no faster way than to connect to the actual machine and type an Email directly into their SMTP daemon. It's also useful for Emailing from other accounts as you can insert your normal from address rather than hijacking someone else's Email package.

This time you type in the relevant SMTP server address in the server gadget but change the port number to 25 for SMTP. When you connect there's no password phase since anyone is allowed to connect to an SMTP system to deliver mail. Normally other systems will call in to deliver mail to users of that local server. If you connect to your local SMTP server and insert a mail, that server will do the same to another SMTP server elsewhere.

Here's an example of sending an Email to joe@bloggs.com

```
HELO mats.net
MAIL FROM: <mat@mats.net>
RCPT TO: <joe@bloggs.com>
DATA
 – E-mail data here –
<RETURN>
.
<RETURN>
QUIT
```

Note, <RETURN> means to hit return at this point. The '.' means to finish the E-mail. Again you must type this perfectly, no control codes will be recognised.

Telnet can be used on any port to access any service that replies on a plain text protocol. However, the most standard use for Telnet will always be to call into an on-line BBS or perhaps that fantastic age-old network computer pastime. The MUD or Multi User Dungeon. There's loads of these about, see the list of Telnet sites shown here for example.

The best bet to find Telnet services is use a Web search engine, insert a topic and the word telnet. Try 'dictionary +telnet' in Altavista. I managed to find a nice on-line Websters dictionary at citi.umich.edu:2627, when connected type DEFINE followed by a word.

Next month Anthony Brice will looking at a little known but effective way of accessing Email and News, with Fidonet software. ■

Mat Bettinson

Telnet sites

MUDs on the Net

mud.mind.net:4000 - Eternal Chaos 2
mud.mind.net:9000 - Eternal Chaos 3
horace.jeack.com.au:4000 - Circle MUD in Australia
world.vivid.net:7979 - More chat than MUD

BBSes

eyesoftime.com:23 - Telnet BBS in Austin, Texas
belfry.org:23 - Gothic themed BBS
flagnet.qtm.net:23 - Flag Net Amiga BBS

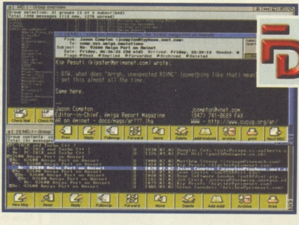
Note the form <site>:<port number> that the addresses are given in.

Net God speaks

Hmmm, I feel a bit different this month. Must be the coffee. At any rate, the upcoming months could well be interesting for Amiga netizens. The cold winter months were warmed quite a bit by the emergence of some new applications and some great updates to old favourites, and now it seems that, once again, Java capabilities may be right around the corner. Besides the prospect of allowing Amiga users to sling around yet another industry buzzword (thanks to Voyager 2, we've recently been permitted to talk about 'frames'), Java would open up a whole new realm of platform-independent tools, utilities and tons of applications that are both fun and useful for users of the Internet. At least, that's what the hype machines say. But just about everybody who's anybody among the online movers and shakers have at least indicated a token interest in supporting Java, so it's worth keeping an eye on.

Surf's up!

Ooh, looks like some nice hot Java could be with you very soon. Other new arrivals will include AmTerm, AmTel and Microdot II.



```
Group selection: 31 groups (3 of 3 subscribed)
Total 1390 messages (113 new, 1276 unread)

   From: Jason Compton <jcompton@typhoon.xnet.com>
     To: comp.sys.amiga.emulations
Subject: Re: V2600 Amiga Port on Aminet
   Date: Friday, 06:36:23 (56 old)  Arrived: Friday, 23:39:13  Needed: 0
  Flags: @Read  @Replied  @Forwarded  @Archived  @Deleted

Kip Pesuti (kipster@primenet.com) wrote:

: BTW, what does "Arrgh, unexpected RSYNC" (something like that) mean
: get this almost all the time.

Same here.

--
Jason Compton                                jcompton@xnet.com
Editor-in-Chief, Amiga Report Magazine       (847) 741-0689 FAX
AR on Aminet - docs/mags/ar???.lha           WWW - http://www.cucug.org/ar/

Group contents: co
Total 191 messages
PC-TASK and Turbo C++ ?
  Re: PC-TASK and Turbo C++ ?        1030 07.02 Douglas Cuts <cuts@scapa.cs.ualberta.c
  Re: PC-TASK and Turbo C++ ?        1326 09.02 Paul Hill <paulh@uniware.co.uk>
V2600 Amiga Port on Aminet
 Re: V2600 Amiga Port on Aminet      1000 07.02 Matthew Stroup <stroupm@inreach.com>
  Re: V2600 Amiga Port on Aminet     1410 07.02 Kip Pesuti <kipster@primenet.com>
   Re: V2600 Amiga Port on Aminet    1028 07.02 Jason Compton <jcompton@typhoon.xnet.c
  Re: V2600 Amiga Port on Aminet     1241 07.02 Sean Curtin <smc8516@rit.edu>
   Re: V2600 Amiga Port on Aminet    1000 07.02 Rave Software London <ya18@dial.pip..
    Re: V2600 Amiga Port on Aminet   1182 07.02 Jim Craig <jccraig@darkwing.uoregon.ed
     Re: V2600 Amiga Port on Aminet  1079 07.02 Kip Pesuti <kipster@primenet.com>
 Re: V2600 Amiga Port on Aminet      1400 09.02 Glenn Saunders <krishna@primenet.com>
```

FINALE DEVELOPMENT

Microdot II, Coming Soon!

Oliver Wagner, best known for his Voyager NG web browser and the author of such notable packages as AmIRC and AmigaNCP, is hard at work on MicroDot II, a new full-featured Usenet news reader for the Amiga.

Details are still sketchy but MicroDot II should bring Amiga users to the daily postings and collected wisdom of the world that much quicker, and in style.

Keep your eyes on VaporWare's home page at http://www.vapor.com or your favourite Aminet mirror for MicroDot II's release. But beware MicroDot I, an older version which is only available in German!

AmTerm and AmTelnet Out

Matthias Mischler, author of AmFTP, has struck not once but twice with new comms and network utilities, AmTerm 1.1 and AmTelnet 1.1.

AmTerm is Mischler's entry into the well-populated pack of terminal software for day-to-day BBSing, utilising the MUI system like the other suite of network tools with the 'Am' prefix.

AmTelnet (see this month's Wired World tutorial) is rather similar but intended only for accessing Telnet sites while online. For those of you who, like me, are tired of the shortcomings of Napsaterm, the AmiTCP standby almost all of us have been using, AmTelnet is a godsend.

Both utilities are shareware, with the same registration channels as other VaporWare products such as AmFTP and Voyager.

Making a Full Search

The Aminet search engines online have always had decent tools like Websearch prompts or the ADT (Aminet Download Tool) which allows you to hunt for certain keywords. But now a new service launched by Torsten Hiddessen allows for full text queries, including author searches (for completists).

A number of full Aminet mirrors may be queried by the service. To give it a try, check out http://harvest.tu-clausthal.de/AmiNET/ and do your worst! ■

Java For the Amiga?

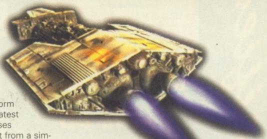
Finale Development, a new Amiga software company based in the US, is planning the launch of a line of titles for AmigaOS and pOS, including a Java implementation to be known as 'MOca.'

MOca uses 'Just In Time' Java technology, which will compile applications written in the slow but reliable Java language into speedy Amiga code. This should allow Amiga users access to everything from customised online animations to complex interactive applications, such as real-time multiplayer games which rely on Java's portability and network nature. As well as MOca, Finale will be distributing the Phantom Development line of software, including the upcoming New York Usenet newsreader.

Phantom Development is behind the ClassAct GUI construction and Finale is behind ClassAct as a result. Finale Web Cruiser, a browser whose feature list would put it in strong contention with the IBrowses, AWebs and Voyagers of the world, is also due for release before mid-year. Web Cruiser promises to support HTML 3.2, complete with frames and tables, and will interface with MOca for Java applications. Finale can be reached at http://www.finale-dev.com.

Surf of the Month

Pigeon droppings, golf, pop bands and science fiction are on the agenda for this month's journey into the world wide web.



We'll kick off this month with a quick look at the on-line version of Mixmag, the 'original' dance music and club culture magazine. **Mixmag On-line** has been around for a while but it seems timely to mention them now as they have just recently been taken over by EMAP, the same publishing company responsible for CU Amiga Magazine. Exciting stuff eh? Anyway, their web site reflects the magazine's focus on the UK and global dance scenes, covering styles from hip hop to hardcore, house, techno and all the other peripheral styles that shoot off from that lot. Mixmag's sister publication, Mixmag Update, also has a section on the site which caters specifically for DJs in the form of charts and news covering the latest releases and 'promos'. The site uses frames, so you'll be able to view it from a simple browser but it will look better with the latest version of Voyager.

While we're plugging fellow **EMAP magazines** we may as well point you in the direction of emap.com, from where you can access web sites run by a range of other EMAP rags, such as Q, Total Sport, Empire, FHM, Select, Golf World and loads more.

The Lair is a new on-line magazine aimed at Amiga users. At the time of writing there's not much to see but by the time you read this it should have expanded to a more substantial site. It seems to have quite a broad manifesto, so why not mail the webmaster with suggestions of what you'd like to see in future.

Maybe pigeon racing is more your kind of thing? **The UK Pigeon Racing Page** claims to be the first ever pigeon Internet site, and who are we to argue? It's maintained by a Dr John Carnie, who "scrapes out, feeds, trains, races pigeons" and does the Internet bit purely for the enjoyment of fellow fanciers. The site has lots of neat touches dotted around it, including animated GIFs and sections split up into frames, so this is another one that's best viewed with a browser that supports these features. Areas include news, an international fanciers directory, champion pigeons, a beginner's guide to pigeons, lost pigeons and plenty more.

If you've got a few grand burning a hole in your pocket and a wall in your living room that's looking rather plain, take a look at the Boris Vallejo and Julie Bell on-line galleries, from where you can buy original artwork for £5000 upwards. These pages can be access from the **SF-Lovers** web site, which has a substantial list of links to other fantasy artwork sites. You'll also find links to science fiction related sites too. This is a great starting point if you just want to drift around the net looking at some decent artwork.

Yet another wonder of the modern age that gives us one less reason to leave our homes is on-line shopping. **CD Now** is a service that specialises in selling music CDs. It's based in the USA, which has advantages and disadvantages for European customers. The disadvantage are obvious, mainly the time lag due to the transatlantic postage. However, the main advantage is that you can pick up American CDs sooner and cheaper than if you bought them in Europe. Most music shops put a hefty price on imported CDs, so you can make quite a saving, especially if you order a few at a time. We've used the service and found that timing of your credit card billing can be a bit erratic, and it seems to be hit or miss as to whether you're charged import duty or not when they arrive at your end. Overall it's not a bad way to get hold of certain CDs that would otherwise be unavailable or very expensive. ■

Tony Horgan

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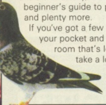
Blur
a leap in the dark?



Those sites in full

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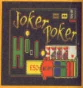

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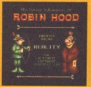

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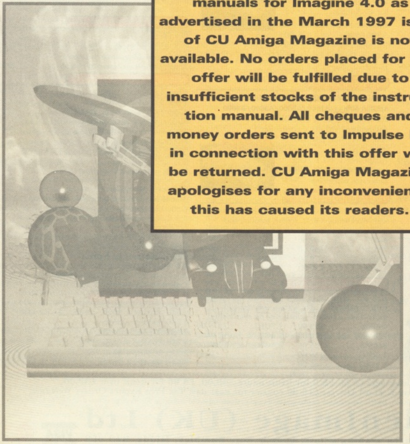

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FAQ

Frequently Asked Questions

Different graphics programs offer varying features but is there any real difference between them? CU Amiga Magazine explains it all.

■ Q. What's the difference between structured and bitmapped graphics?

■ A. A structured art program works with co-ordinates and other information to build its display, rather than processing a block of memory containing pixels of different colours. For example, a circle would be stored as a location and radius, rather than a collection of pixels in the shape of a circle. Other information stored includes details on the colour and thickness of the line which describes the circle and whether or not it's filled with a pattern. A structured art program will use these descriptions to create a display on-screen so you can see what the image looks like: but remember, this display is only an approximation, limited by the resolution of the screen mode used to display it.

■ Q. What's good about structured graphics?

■ A. The obvious advantage is that structured graphics are resolution independent. When you zoom in on a structured drawing, it is still stored with the same detail, it doesn't get 'blocky' like a bitmapped image. Take clip art for example: there are megabytes of clip art in structured format in the public domain. When you load in a piece of clip art, you can shrink it and stretch it and it will still look as good as the original.

Structured art often takes up less storage space than a bitmap graphic and is easier to edit. For example, you may wish to change the colour of part of the drawing: with structured art this means selecting only the lines and shapes you require and changing their properties. A structured art drawing is like many layers applied one on top of the other – it's easy to adjust one element without messing up any others. With a bitmapped program this would be difficult if not impossible.

Many people also find it easier to draw using a structured art program. The ability to draw a line and move it or add a shape and then resize it, is a big advantage.

■ Q. Any disadvantages?

■ A. Whilst perfect for line drawings and other 'sketched' shapes, structured art is useless at storing a detailed image such as a scanned photograph. A bitmap which has information on the colour of each pixel is much better. With bitmapped paint programs you can also apply filters (for example, blur or emboss) and use shading and air-brush options. This is impossible with structured art programs. File formats are also more standard with bitmapped images and sharing GIF and JPEG images between other platforms is much easier. Finally, the Amiga can animate bitmapped pictures much easier than structured ones.

■ Q. What about scanned photographs?

■ A. If you want to play with detailed images, use a bitmapped program such as Personal Paint, Photogenics or Art Effect. You'll need to be able to process each pixel, as well as apply filters and paint directly onto the image.

■ Q. Which one is suited to the graphics on my World Wide Web site?

■ A. As you will need to save out your images in GIF and JPEG format, the obvious answer is to use a bitmapped paint program. However, a structured art program such as Draw Studio is very useful, especially when it comes to creating buttons and so forth. Draw Studio allows work to be carried out in vector form and the final image can be saved as a GIF bitmap. It's also easy to create a button and add different text to it, and save the image out as a GIF.

■ Q. Which is better for desktop publishing?

■ A. Apart from when you are including photographs, structured art is much better. Artwork stored in vector format will be printed at the resolution of your printer: which is usually very high – much higher than a monitor, for example. This means curves and lines will appear totally smooth and very crisp and sharp. In addition, if you like playing with typefaces, structured art programs usually offer more tools and features than a paint program.

■ Q. What about video?

■ A. Bitmaps are best, although the ability of Draw Studio to output bitmap images means that it's possible to make use of its font handling tools and then save the image out in IFF format. This can then be loaded in a bitmap program (say, Deluxe Paint or a video titling program) and used with a genlock to provide captions for video.

■ Q. Animations?

■ A. Structured art programs are rarely used in animation, although technically a package such as 'MovieSetter' has more in common with vector than bitmap systems.

■ Q. Can I use structured art with my WP?

■ A. That depends on the formats in which your structured art program saves images, and the formats which your word processor loads, so the answer is 'it depends'. Contact the companies responsible for both to make sure they can talk before buying.

■ Q. Which type should I buy then?

■ A. Ideally both: you will find that you use both a vector and a bitmapped program depending on the application at hand. For example, you may find yourself drawing a graph or chart in a structured art program, and then loading it into the bitmapped program to add more details. Or you might render an object in Imagine and then load it into the structured art program to add labels. ■

John Kennedy

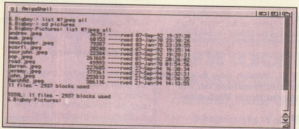
Paint programs

Here are some examples of well known bitmapped and structured packages.

Bitmapped	Structured
Deluxe Paint	Draw Studio
Personal Paint	WordWorth
Art Effect	XCad
Photogenics	Design Works

Masterclass

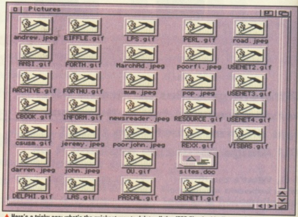
If time is money then switching to using the shell will save you a small fortune. So stop hanging around with WIMPs and make the change.



```
6.Bigboy:> list #?jpeg all
6.Bigboy:> cd pictures
6.Bigboy:Pictures> list #?jpeg all
andrew.jpeg                  36751 ----rwed 07-Sep-92 19:37:38
mum.jpeg                     60153 ----rwed 03-Jan-78 23:38:26
newsreader.jpeg              79387 ----rwed 03-Jan-78 23:39:55
poorfi.jpeg                  20240 ----rwed 07-Sep-92 19:35:14
poorjohn.jpeg                22384 ----rwed 07-Sep-92 19:20:31
pop.jpeg                    261669 ----rwed 07-Sep-92 20:26:02
road.jpeg                    49993 ----rwed 03-Jan-78 01:54:56
darren.jpeg                 227685 ----rwed 27-Sep-94 16:30:34
jeremy.jpeg                 177361 ----rwed 27-Sep-94 16:32:31
john.jpeg                   253813 ----rwed 27-Sep-94 16:34:35
MarchAd.jpeg                306116 ----rwed 21-Jan-94 14:13:55
11 files - 2937 blocks used

TOTAL: 11 files - 2937 blocks used
6.Bigboy:Pictures>
```

▲ A limitation of the ALL keyword is that it won't perform a pattern matching search anywhere other than the current directory. Whoops.



▲ Here's a tricky one: what's the quickest way to delete all the JPEG files in this directory? OK then - how about all the JPEG files in all the directories?

It might seem strange to use Command Line Interface (CLI or Shell) on the Amiga, when there is such a good Graphical User Interface (GUI) such as Workbench available. Surely the point of the GUI is to remove the need for typed commands in the first place?

Owners of other computer platforms might agree but the Amiga is different. Yes, it's possible to achieve practically everything from the GUI but the Shell provides a powerful and succinct way of doing the same things.

Here's an example. Imagine you need to delete all the JPG files from your hard drive in a hurry. From the Workbench, you'd have to look through the icons and select them one by one before hitting 'Delete' from the pull-down menu. What happens if the files are scattered in multiple directories? Well, you'd have a long night in front of you.

The alternative is to open a Shell window and enter something like:

```
delete #?.jpg
```

This highlights one of the main differences between how a GUI and a CLI work. With a GUI, it's up to you to select the files by either clicking on them or dragging a box around them. This is great for selecting a small number of files but if you don't know where the files are or if there are a lot of them, it can be tiresome.

You might be wondering how the Shell can make it possible to find and delete ALL the JPG files stored on the computer, no matter where they are stored. It's not particularly easy and I made a mistake last month when I fell into the trap of thinking that I knew how to use LIST properly. My mistake concerned the use of the ALL keyword. If you use ALL, then any pattern matching is only done at the top-most level. So, if you were to enter:

```
list #?.jpg ALL
```

Then only those files ending in JPG in the current directory will be displayed, not those in any subdirectories. This is a bit of a nuisance. However, I've been working to discover a way around this and the result is one heck of an amazing LIST command. If you like logic problems, then you'll love this I promise. If you do work your way through it, I can guarantee that you'll know a heck of a lot more about AmigaDOS than when you started, I certainly did, anyway.

So, here's the problem. We need to find and delete every file ending in JPG, no matter where it is located on the hard disk. Just for the moment, I'm going to substitute 'vt' for 'delete'. This is the name of a program which will display the JPG file. It's always a good idea to try something instead of delete when you are experimenting with scripts. Let's get started.

Step one

First, let's look at how you would get a list of all files ending in JPG if you knew the directory they were located in. Assuming the directory was called 'pictures', you would use a command like this:

```
list pictures/#?.jpg
```

Step two

However, we want to create a list of instructions which will automatically display (or delete) the files. To achieve this, we use the LFORMAT option. This allows us to add text and control how the filename and path are displayed.

The version of LIST we use looks like this (→: indicates no return here).

```
list lformat "vt %p%n" →
pictures/#?.jpg
```

When you enter this command, you will see something like this:

```
vt pictures/pic1.jpg
vt pictures/pic2.jpg
vt pictures/pic3.jpg
```

Which is exactly what we want.

Step three

Having the above displayed at the Shell isn't useful. Although the right text is appearing, it's not doing anything. Instead we need to redirect to a file. This means that the same text isn't display but instead is stored in a text file. The file can then be used with EXECUTE, the command which loads a file and runs each command line by line.

To redirect the output, we would alter the original LIST to become this:

```
list lformat "vt %p%n" pictures/→
#?.jpg > ram:script
```

This creates a new file in the RAM disk called 'script' and you can make the commands inside happen by using execute, like this:

```
execute ram:script
```

Step four
Now we are half way there. All we need to do is somehow automatically provide the LIST command with a list of all the directories it should search through. But hold on: this is exactly what LIST is for! So to obtain a list of directories, we would use LIST like this:

```
list all dirs quick
```

However, we need the list to include the path to the directories rather than the names alone, so we use the LFORMAT keyword again, like this:

```
list lformat "%p%n" all dirs quick
```

This provides a list of all the directories, and their paths.

Step five
Now we need to combine the two different LIST commands above into one. This is where it starts to get a little tricky! As you can see, it's possible to include extra commands in the LFORMAT string to make a new script. This means we can include the first LIST command in the LFORMAT string of the LIST command used above. Here's a first attempt:

```
list lformat "list lformat "vt →
%p%n" %p%n/#?.jpg quick > →
ram:script" all dirs quick
```

This looks pretty scary to start with but look carefully and you'll see it consists of a list command which creates a list of other list commands. There are several problems with it though.

```
list lformat "vt %p%n" →
pictures/#?.jpg
```

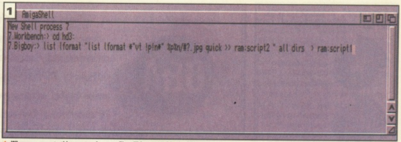
Step six
You cannot have quotation marks nested like this. The quotation marks which make up the internal LFORMAT string will need to be replaced. There is a magic AmigaDOS command to do this: instead of a quotation mark you use an asterisk and a quotation mark together.

Secondly, there is a problem creating the script. Ignoring one other problem for the moment, the above LIST is designed to create output like this:

```
list lformat "%p%n" pictures/→
#?.jpg quick > ram:script
list lformat "%p%n" graphics/→
#?.jpg quick > ram:script
list lformat "%p%n" games/→
#?.jpg quick > ram:script
```

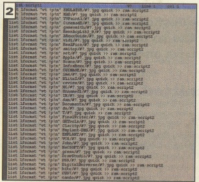
The problem is that each line will replace the script created by the previous line. Instead of the '>' redirection symbol, we need the '>>' symbol as this appends each new line of text to the end of the file, rather than creating a new one.

Step seven
There is still one flaw left. In the mammoth LIST command, the %p%n appears twice.

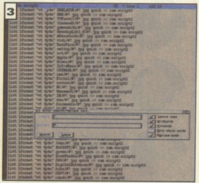


```
New Shell process 7
7.Workbench:> cd hd3:
7.Bigboy:> list lformat "list lformat #"vt !p!n#" %p%n/#?.jpg quick >> ram:script2 " all dirs > ram:script1
```

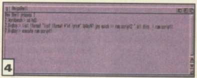
▲ When you execute this command, a new file will be created in the RAM disk called 'Script1'. Here's what it will look like:



▲ Perform a quick global search/replace and swop the '!'s for '%'s.

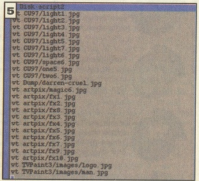


▲ Now you can run this script:



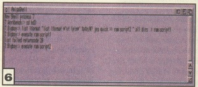
```
New Shell process 7
7.Workbench:> cd hd3:
7.Bigboy:> list lformat "list lformat #"vt !p!n#" %p%n/#?.jpg quick >> ram:script2 " all dirs > ram:script1
7.Bigboy:> execute ram:script1
```

▲ This creates a new script, which looks like this:



```
t CU97/light1.jpg
vt CU97/light2.jpg
vt CU97/light3.jpg
vt CU97/light4.jpg
vt CU97/light5.jpg
vt CU97/light7.jpg
vt CU97/light6.jpg
vt CU97/space6.jpg
vt CU97/one5.jpg
vt CU97/two6.jpg
vt Dump/darren-cruel.jpg
vt artpix/magic6.jpg
vt artpix/fx1.jpg
vt artpix/fx2.jpg
vt artpix/fx8.jpg
vt artpix/fx3.jpg
vt artpix/fx4.jpg
vt artpix/fx5.jpg
vt artpix/fx6.jpg
vt artpix/fx7.jpg
vt artpix/fx9.jpg
vt artpix/fx10.jpg
vt TVPaint3/images/logo.jpg
vt TVPaint3/images/man.jpg
```

▲ And once more, you can run this script.



```
New Shell process 7
7.Workbench:> cd hd3:
7.Bigboy:> list lformat "list lformat #"vt !p!n#" %p%n/#?.jpg quick >> ram:script2 " all dirs > ram:script1
7.Bigboy:> execute ram:script1
list failed returncode 20
7.Bigboy:> execute ram:script2
```

▲ To delete the JPG files use search/replace and change 'vt' to 'delete.

These are the special markers which are replaced by the path and name of the file or directory. But we don't want the first pair to be replaced by the file and path name, as we want this to happen when the created file is executed. Unfortunately I haven't yet worked out a way around this (perhaps if you do, you'll be good enough to get in touch) so in the meantime I've substituted an '!' for a '%'. This means that at some point you'll need to load a text file into a word processor and perform a global search and replace.

Step eight
OK, let's use our awesome list command to find all the JPGs on the hard drive, and create a script which will display them all. First of all, enter this:

```
list lformat "list lformat *"vt →
!p!n*" %p%n/#?.jpg quick >> →
ram:script2" all dirs > →
ram:script1
```

After all that, you might be wondering if it wouldn't be simpler to make do with the GUI and spend several days hunting for all the files yourself. Well, that's one of the amazing things about computers, very often you'll find yourself spending a long time trying to find an easy way to perform a tedious task. This exercise is no exception, but you might find it useful. After all, you can easily adapt it you search for IFF, Anim or LHZ files which could then be copied to removable disk. It's incredible how much disk space you can free up when you purge your system from graphics files you are unlikely to ever need again. ■

John Kennedy

Logos, meanings and mysteries:

CD32 queries, ParNET and various other CD-ROM-related problems.

All about upgrading RAM, operating systems and processors.

Plug-in hardware of any kind: scanners, disk drives etc.

Answers to queries on particular pieces of software.

Music, sampling, MIDI and anything that makes a loud noise.

Miscellaneous tools to keep your Amiga running smoothly.

Form-feeds, page-breaks, preferences and lots, lots more!

Monitors, TVs, modulators, screen-modes and all that stuff.

Pixels, sprites, animation, pictures. In one small word: graphics.

Spreadsheets, databases, organisers, accounts ...

Everything you need answering about the Internet

Not everything fits into a pigeonhole, but anything you like fits in here.

Q&A

A wise man once said: "No-one can have all the answers." Piffle, he'd obviously never read CU's Q&A pages where Andrew Korn and Mat Bettinson are two men with all the answers when it comes to anything Amiga related.

I'm an all round type of guy so I'll give any questions that you'd like to throw at me my best shot.

I'm a bit more on the specialist side. Questions on the internet and anything Comms related are just my cup of tea.

Get knitted

I have recently bought an Amiga 1200. I am starting to design my own cross stitch patterns. I need a printer, preferably one that prints the patterns in colour but can also print the black and white symbols that are used in the patterns. Any suggestions? Also, being a complete beginner to computing, could you suggest some information and software so I can learn about the language etc. and know the capabilities of the machine, as OS and Kickstart etc. mean nothing to me?

Mrs. H. A. Elsom, Hull.

For your needs the printout should be clear rather than photographic, so a single cartridge colour printer should do. These mix black from the colours when a colour cartridge is being used, producing a slightly muddy black but they are cheaper. A Canon BJ70 or an HP400 colour should do the job. Both are small and cost around £160. For about £100 more an Epson Stylus is hard to beat.

Things like OS and Kickstart may sound intimidating at first but don't let it worry you. They are the basic software that makes an Amiga an Amiga. Keep reading the magazine and you will be an expert in no time!

Hard drivin'

I recently purchased an A1200 with an extra disk drive. I am sick of swopping disks so I want to buy a hard drive. So:

1. Which one do you recommend?
2. What will I get for £200?
3. How will it improve my Amiga?
4. Will I have to take my computer apart to fit it?
5. Could you give me a list of alternatives to buying a hard drive?

Colin Burg, Morley, Leeds.

1. Check our advertisements for a huge choice. The only decision (apart from cost) is between 3.5" and 2.5" drives. 3.5" drives are cheaper, but the 2.5" ones are cheap enough and fit more easily.
2. You could get a 1.1Gb Instant Drive from Eyetech which is a 3.5" drive but one which fits quite easily. Alternatively a 2.5" drive of around 850Mb would fit even easier and draw less power, a consideration if you wish to buy an accelerator in the future. 850Mb is likely to be more than you will ever need.
3. Let's count the ways. You may think it just reduces disk swopping and speeds things up, but it is much more than that. The whole way the Workbench functions cries out for a hard drive. It is the best thing that could happen to your machine.
4. Many shops will fit it for you at a cost. However fitting a 2.5" drive is only a little harder than changing the fuse in a plug, and instructions should come with the drive.
5. There is no real alternative.

A build up

1. I want to buy a CD-ROM drive and accelerator to use your cover CDs. I am thinking about getting Eyetech's CDPlus. Eyetech sell CDPlus without a mechanism. Would this mean that I could fit any PC IDE drive?
2. Would I have to buy a power supply if I get an accelerator, say a Blizzard 1260, as well? If this is the case, will a tower case do? The HiQ Powerstation costs hundreds but Eyetech sell a much cheaper PC Mini tower case.
3. I like the look of the Blizzard 1240T/erc and 1260. I have heard the '040 board only fits into a tower Amiga. Is this true and if so where can I get a tower Amiga? How do the two boards compare?
4. Like many Amiga users I have a PC at work and would like to transfer files between these two platforms. I am thinking of buying a ZIP drive or an HD floppy. Help?

Henry Chung, Hong Kong.

1. Yes, if it is 100% Atapi compatible.
2. If you fit the CD drive to the internal power from your Amiga, then yes. If you use the Eyetech CDPlus, your CD-ROM drive will take its power from that, leaving your Amiga's power supply to cope with the accelerator. You could even move your internal hard drive to the Eyetech unit to take the strain from your Amiga power supply. HiQ's Powerstation includes a SCSI connecter and a CD-ROM drive. We guess you are referring to Eyetech's mini tower upgrade for the CDPlus. With this the whole lot comes in around £100 less but doesn't have SCSI.
3. The 1240T/erc runs hot – it needs good air circulation, which a tower has. You could follow our series on fitting your Amiga into a tower case or hunt down a commercial design but be warned that it doesn't like MicroniK towers.

Comparing accelerators is tricky. Blizzard rate the '040 model at 30 MIPS, the '060 at 38.71 but this isn't the whole story. In some cases the 1260 will be much faster, but for a few the '040 will beat the '060.
4. A DD floppy formatted as a 720k PC disk can be understood by your

Amiga if you use CrossDos. The zip is a great alternative, if rather more expensive.

Blurred vision

I recently purchased an AT 1438s multisync monitor from the first computer centre. When I plugged it in everything seemed fine, except the image was slanted, and when I changed screenmode to DBLPal or Productivity, the screen sort of wobbled at the bottom. Is the wobbling normal?

I rang up First and they immediately got Microvitec to send me a replacement. This one had a slanted tube too and the screenmode problems still hounded my Amiga, so I rang up First and asked for a refund, which they immediately gave me. Their service is first class and I recommend them to anyone.

Are the problems caused by my Amiga or am I unlucky enough to have received two faulty monitors?

Also, please run a feature on hacking an A1200 into a tower case. I have been waiting to buy a pack to do this from a German company but can't afford it, so please tell us how to DIY.

Graham Hamilton, Ottery St. Mary, Devon.

It's very unlikely that the Amiga is the culprit. Is there a loudspeaker near your desk? It may be that a stray magnetic field is at fault. Put a portable TV in the same place and see if you get the same problem. If not, then you were almost certainly unlucky with a bad batch of monitors. Try another one, with a very different serial number if possible!

We've been flooded with requests for a upgrade feature. You got it! If all goes to plan part one is in this very issue. Now stop asking already!

Card games

I've upgraded my A4000 to a high spec with a Cybervision 64 graphics card. I have some questions for you:

1. The Cybervision came with a very small manual and a disk containing some libraries, I would like to write some programs which use the Cybervision libraries but I have no documentation on them, where can I get this information?

2. Does DPaint support Cyber displays? If not, are there any similar packages which do?

3. I have a SCSI CD-ROM drive which came with a very basic driver. I would like to emulate a CD32 – can you recommend any software?

James Taylor, Winyates West, Redditch.

1. On this month's cover CD, you will find the CyberGraphX development kit in the Programming drawer.

2. DPaint was written well before graphics cards were common place. It tends to use the native hardware only, though version 5.0 will open RTG screens with some success. PPaint 7.0 works well under CyberGraphX. See our review in the January issue.

3. AsimCDFS as sold by Blittersoft has reasonable CD32 emulation though these are versions of this are only partially successful at running CD32 games.

Cubase control

Being new to the Amiga I would like your advice on Amiga music software/hardware. Having used an Atari 1040ST with Cubase V3, I was wondering if it was possible to run this program with an ST emulator without causing detrimental effect on an A1200 (there are versions of this software for ST, PC and Mac). Cubase is suited to my requirements and I don't want to downgrade to a program with less functions and tracks for sequencing. I have heard about OctaMED and I am sceptical of the amount of tracks available considering Cubase has more, and I really don't want to have to compress the tracks.

Music lover, London.

In theory you should be able to run Cubase via an Atari ST emulator. However, software emulators put a big strain on the computer's processor, with the result that the software will generally run slower under emulation than on the computer it was intended for. This could cause problems, especially as timing is crucial with a MIDI sequencer.

While OctaMED SoundStudio (free with March 1997 issue of CU Amiga Magazine) is without doubt the best all round music package on the Amiga, with up to 64 tracks available, it works in quite a different way to mainstream MIDI sequencers like Cubase. If you want a similar working environment your best bet is to get hold of Music X 2.0 or track down Camouflage, a very powerful shareware sequencer available from the Aminet on-line archive and good PD libraries.

Perfect match

I am interested in buying a Blizzard 1260 with 16Mb but I need to know if it is PCMCIA compatible because I have an Amiga 1241 Q drive CD-ROM. I have written to White Knight Technology who sell cheap 1260s and they say that they are not sure if the board will work with the Q drive, so I am writing to you because you seem good at answering problems.

S.Longden, Redford, by Arbroath.

Oh dear, you've got us there. We never got a Q drive, so we aren't sure. The Blizzard boards have been known to cause a few problems with PCMCIA equipment, although mostly this has been solved with software updates. This is one of the ones that might well still be a problem though. The only way to be sure is to try it – ask your dealer if you can return the unit in case of incompatibility, and if they say no then go somewhere else. For that money they should be happy to do this.

DOSsing about

1. Are there any manuals/lists of the Amiga Shell commands available?

2. Are there any simple programs to make Workbench run easier? CUCD5 on the December Issue was laid out really well with brilliant Icons. How can I make my Workbench look like that? I want to impress my friends with the layout and user-friendliness.

3. I'm having trouble finding stockists in the Birmingham area. Anywhere in the West Midlands would do, Coventry, Birmingham, Lemmington, Kenilworth, Solihull etc.

Steve Best, Birmingham.

1. Most releases of the Amiga had a basic list in the manuals. Alternatively check out the AmigaDos Guide v2 from Online PD (tel: 01704 834335), a basic but cheap disk guide, or phone Bruce Smith Books (tel: 01923 894355) for a more in-depth manual.

2. There are millions! We are planning an article on this in the future. As for the icons, you already have them. Check out the System drawer on CUCD5 and you will see the full NewIcons package, with documentation and installers.

3. Try mail order – it is often the best way to do your computer shopping.

Connections

I have an A1200 and am thinking of buying an A600 with a hard drive.

1. I would like to install Imagine 4 to hard drive. Could I install it to the A600 and then connect the A1200 and the A600 together? Could I install AGA games on the A600 to use on the A1200?

2. I have lost the two Imagine3 Installer disks CU123a and CU123b, can anyone help?

3. Are you going to cover mount old games? Some of the golden oldies that made the Amiga what it is are impossible to find.

4. Are you going to review the Reality Construction Kit and run tutorials on it?

1. Networking Amigas won't make them work as one machine. You could send programs from the A600 to the A1200 but it would be slow. If you want software on a hard drive, the best solution is to put one in your A1200.

2. Imagine 4 is better, stick to that.

3. Check out this month's vintage games feature!

4. We will review it when it comes in. A tutorial depends on what we think when we've had a good look at it. ■

Calling J.McDonald
A reader wrote in to offer help with your GVP problems, but we've lost your address! Write in and we will forward his letter to you.

Send your Q&A problems to ...

You can send your technical problems [or answers – Ed] to CU Amiga by the following means:

By letter to Q&A, CU Amiga, Priory Court, 30-32 Farringdon Lane, London, EC1R 3AU.

Email: Q+A@cu Amiga.co.uk.

NO SAES PLEASE We regret that we can't respond to readers' questions by post or over the phone. Please do not include a stamped addressed envelope with your letters as we simply don't have time to answer the thousands we receive. Responses are only available through the pages of this magazine.

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To order any disk just write the disk title and the disk code, EG U01 Agene. Some title have a number in ( ) this means the title comes on (x) number of disks. To order PACK just write down the pack TITLE name will do.

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music

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M006 BAT-DANCE REMIXED
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M115 MAHONEY & KAKTUS 2 - 40 tunes compilation
M125 ADAMS FAMILY
M147 BANGLES - Walk Like An Egyptian
M150 TIFFANNY I Think We're Alone Now
M171 MADONNA - (Like a Virgin)
M173 JANET JACKSON - RHYTHM NATION
M177 PET SHOP BOYS
M184 SAM FOX - (PLEASE ME)
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M188 JOE Le TAXI
M189 MICHAEL JACKSON (SMOOTH CRIMINAL)
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M205 RAVE - more Rave
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U735 PRINTER STAR 24/200 FONT DESIGNER - shareware
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U884 CANNON PRINTER STUDIO for all models for use with cannon printers
U757 150+ PRINTER DRIVERS largest collection

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U513 VIDEO TITLER (2 disks) more VIDEO TITLER-BEST
U920 TELESCROLL 2 (not WB1.3) Easy to use Video titler loads of features
U921 WEDDING VIDEO ANIM (2 disks) Requires D.Paint 3/4 Very high quality
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U923 VIDEO MANAGER (not A500 1.3) Video Catalogueing system
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TOP VARIOUS UTILITIES

U024 D-LOCKS protect your disks & files
U027 ULTRAPAINT & SURF paint & 3D model program
U029 CAN DO programming language
U046 DARKSTAR no.2 (vol 2-5) loads of utils
U058 DISK MAG CREATOR create a disk magazine
U117 NORTH C compiler (2) brill programming language
U122 SID 1.6 copy/delete/move file made very easy
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U135 MOST USED UTILITIES (2) very useful util collection
U145 XCOPY PROFESSIONAL very powerful disk copier
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U169 PAINT AND ANIMATE still the best
U170 BIORHYTHMS V4.01 display your own biorhythms
U184 MASTER SEKA V1.6 complete Assembler language
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U187 M COMPUTER AID DESIGN - Was commercial product
U188 SHOWBIZ Slide show maker 24+ wipe effect
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U222 GRAPHICS UTILITY (3) lot of graphic converter tools
U226 50+ MOST USE UTIL loads of very useful utils
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U240 ARCHIVER TOOLS lots of crunchers
U242 IMPLODER 4.0 dis file compressor. Excellent
U243 The A-T COPIER (not WB3) 13 disk copier
U254 FRACTAL UTIL loads of fractal programs, brill
U282 LAND BUILDER create realistic landscapes
U284 COPY & CRACK TOOLS back up your software
U300 MESSY SID II read/write PC/MAC etc files
U301 AUTO DISK LOGGER catalogue your disk
U321 GRAPHIC Util 1 (3) loads of brill graphic utils
U324 GRAPHIC util 2 (3) even more graphic tools
U333 SCENERY MAKER more landscape generators
U334 EMULATOR COLLECTION II (lots of emulators)
U335 FREE COPY back up commercial games
U337 MODEL 3D Brilliant 3D object designer
U338 MULTI VISION (2) disk/files utilities
U340 HACKER-TOOLS many ripper tools
U350 POOL TOOL - predict horses with the best chance
U351 RACE RATER Similar to above, but both
U358 STAR CAT 2 - create catalogue disk, easy
U359 SEEKER find lost files on floppy & hard drive
U360 R.P.G (2) adventure creator
U363 DISK REPAIR KIT salvage & repair damaged disks
U372 WORLD SORT process ASCII files
U377 NCOMM III more modem software + packer util
U380 UNICOPY fantastic disk copier
U399 FRANSCAPE V1.2 new fractal similar to VISTA
U400 SOUND TRACKER V2.6 music maker
U420 SPEED BENCH (not WB1.3) create auto boot WB
U425 NIB 2 very popular copiers
U436 THE RIPPER COLLECTION (not WB3) many ripper progs
U442 SYSINFO test & print info on your Amiga sys
U444 FONT FARM font creator/editor/design new fonts
U457 WHOM 2 (3 DISKS) Detail/database on 51 films
U470 FINAL FRONTIER 1 (2 disks) Star-Trek magazine
U475 FINAL FRONTIER 3 (4 disks) Star Trek magazine
U480 HARD DISK CLICK Hard drive menu system
U490 B-TEC UTIL Amazing pack with 207 utilities
U491 PROTRACKER V3 Best music writer program
U492 WORK STATION (2 disks WB1.3 only) WB replacement
U495 HARD DISK UTIL brill collection of Hard Disk util
U496 EASY PRINT (A500 only) lots of printing utils
U498 WORK MATE 15 brilliant disk utils compilation
U501 THE MUSIC CONSTRUCTION KIT (state Amiga owned)
U504 HOT STUFF more util disk compilations
U505 VIRUS KILLER & DISK RESALVGE / REPAIR KIT
U507 DCOPY V3 PROFESSIONAL Excellent disk copier
U509 ULT BOOT BLOCK 40+ bootblock generator/maker
U510 ULTIMATE BOOTBLOCK Collection II + more
U512 ZIRCON UTIL 30 MOST USEFUL UTIL 2, brilliant
U515 WIT COMPETE UTIL 20 most used utils

U521 SPECTRA PAINT III rival to DPaint
U550 SCENERY CONSTRUCTION KIT FRACTAL, recommend
U551 ASSASSIN BOOT BLOCK over 50 bootlock protector
U555 CROSSWORD CREATOR (not WB3) crossword maker
U561 PERM CHECK a full POOL PREDICTION program
U568 ICON CONSTRUCTION KIT icon making program
U589 ICON ready made (4 disks)
U590 500 NUMERIC PAD EMULATOR (A600 only)
U591 DEGRADER (not WB1.3) A500 emulator
U592 KILL AGA make older programs run on A1200
U600 C64 EMULATOR II util & document
U601 DISKSALV II + ABACKUP (not WB1.3)
U603 THE CHEAT COMPENDIUM for over 450 games
U620 HOW TO CODE IN C (2 disks) + many examples
U622 ACTION REPLAY V1.5 cartridge on disk
U623 ACTION REPLAY V4 (A1200 ONLY) same as above
U645 PC EMULATOR V2.31 (WB3 only) SVGA PC emulator
U650 COPY & CRACK TOOL 2 more powerful copy programs
U680 NEW SUPER VIRUS KILLER (not WB3) kill 316+ viruses
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U694 SUPER DUPER 3 (NOT WB1.30 v.fast disk copier
U696 AMITOOL PROFESSIONAL disk database tool
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U700 ANIMATION CONSTRUCTION KIT V1.2 + good
U702 V MORPH V2 create smooth morph animation
U703 POOL TOOLS 2(Latest) predicts horse racing
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U714 ENGINEERS KIT various test kits for Amigas
U718 MAGNUM 1.9 REGARD the best disk magazines creator
U721 FONT FARM V3+ loads of fonts + font viewer
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U726 AREX MANUAL (not WB1.3) complete manual. Highly rec
U729 ASSASSIN BOOT UTIL 50 boot block creator utility
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U738 S.KICK PROFESSIONAL V3.2 Various versions of K-Start
U739 TURBO IMPLODER V3.1 powerful disk cruncher
U740 CROSS DOS 5.1 plus read/write PC<> AMIGA disk
U741 HD-DISK TOOL BOX + many more disk util recommend
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U743 UTIL. Disk Maker v3. MAKE AUTO DISK
U744 FRACTAL MANIA + BIOMORPH Brilliant Collection
U745 AF WORKBENCH (WB1.3 ONLY) replacement
U746 3D GARDEN DESIGNER can view from any angle brill
U747 ASTRONOMY V2 predict star planet prediction
U748 ILLUSIONS DRAWING program like Dpaint
U749 DISK REPAIR 3 (floppy & HD) include soft-protect
U750 MUSIC CATALOGUE (not A500 1.3) very easy to use
U751 SYSTEM CHECKER TOOL must for any amiga owner
U753 HARD DRIVE UTIL + lot more Hard drive util
U754 PARBENCH installer (complete)
U755 PRO CAD electronic latest circuit board designer
U758 WB MENU LAUNCHER menu system, easy to use
U760 ICON PLUS (3 DISKS) Hundreds of stunning ICONS
U761 RELOCKIT 1.4 latest WB1.3 emulator
U762 FAKE FAST MEMORY make older software run
U777 TELETEXT RECEIVER Project. Highly recommended
U781 DOSTRACE V2 display information why some program refuse to run. Also monitor Amiga activity RECOMMENDED
U783 POOL WINNER GOLD must for all gamblers
U789 HARD DISK MEMORY V2 use HD as memory (re MMU)
U790 WINDOW BENCH V2 (WB 2/3) 2 disk new workbench replacement, include lots of useful utilities
U791 COMPUTER DIAGNOSTIC TEST V9 Amiga complete system tester

U800 PRINT A CARD include many ready made
U801 MULTI-PRINT V4 lot of printing util
U805 DISK PRINT print custom disk lables
U807 FONT & PRINT Load of utilities to wiew & print your font collection. RECOMMED
U830 POOL WIZARD -(football) prediction
U832 DIVENDEND WINNER - Prediction rograme for use with LITTLE WOOD, VERMON, ZETTER Ect
U834 FORCASTER 2.02 New Horse prediction Prog
U839 AUDIO MAGIC 4-Proctracker V3,Exoctic ripper
U843 AUDIO MAGIC 6- Octamed player ect
U846 C64 emulator V3 (2DISK) C64 emulatorlatest
U848 SPECTRUM EMULATOR V2- Spectrum emulator latest
U850 EAGLE PLAYER (2disk) the best music player
U851 DELI-TRACKER (2disk) play all music format.
U881 SONIC DRUM KIT V2 Make drum sample
U882 DISK COPY Pack- collection of 10 disk copier
U883 OPTI-Utils 1-over 30 disk copier/Optimise ect
U885 INTUTION BENCH MARK V6,5 (Not Wb1,3) sysinfo
U886 COMPLETE WB UTIL (2DISK) very useful Util col
U887 DISK REPAIR KIT 4-Include disk repair, undelete,softproctect, diskmate, sysinfo,ect
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U957 SCALA BACKGROUND (2disk) High quality image
U960 PROGRAME LOADER-New HardDisk menu
U961 MAGAZINE E 3(2disk) science fiction magazine
U963 AMOS & AMOS PRO COMMAND EXTENSION
U967 PRO-GAMBLE-Super Horse prediction programme.
U978 DELUXE PAINT 4 BUDDY SYSTEM-(2) Get the most out deluxe Paint Instan on line for evry fuction
U981 VIRUS CHECKER V6.54 --AUTO UPDATE MONTHLY-- U982 DIRECTORY OPUS V4 add Extra Command/BUTTON
U983 MAGIC WB & MAGIC MENU . Both Latest version
U986 VIRUS-WORKSHOP V5.1-the best Virus killer
U987 GRAPHIC-CONVERTER (2D) Convert picture ect
U988 TURBOCAT Auto catalogue your disk library
U989 AUTOBOOT DISK MAKER V4 -very useful
U993 IMAGINE STUDIO V2.(2D) The best PD image(picture) processor available rival even thecommercial costing hundras of pound. (not k1.3)
U969 POWER-CACHES Speed up disk loading,Accesses
U970 HARDDRIVE SECURITY II Large collection of HDscerity programe eg Lockout2,Password & many more
U971 HARD-DISK & FLOPPY DISK DOUBLER (Epu) not WB1.3
U973 CHEAT FOR 800 + GAMES. LEVEL CODE V3.3.(2)
U974 HD GAMES INSTALLER 2 install tops games to HD.EG.ZOOL2. Rise Of the robot,Mortal Combat2 & more
U975 DMS V2.04 Pro. Crunch entire disk. (not1.3)
U976 MAGIC SLECTOR V1.4-Change Magic WB back drop
U977 MAGICWB ICON ARCHIVE (3) 1000's of MGwb icons
U998 X-PASSWORD-proctect your hard/floppy drive
U979 ICON ACHRIVE(3) 1000's of normal icon(any Amiga)
U994 TEXTURE STUDIO. Render Various Texturefor use with Imagine 3 ect req FPU.(not 1.3)
U995 PRO-GAMBLES V2 must for all gamblers.
U996 BOOKIE BEATER- gambling programe to win bookie
U997 HD GAME INSTALLER 3. Install more game to HD
U998 EXOCTIC RIPPER V3.5 Latest ripper
U999 HD MEMORY (new collection) require MMU
U1000 MAGIC OPUS VOL 2 & 3 (2D) more Dopus buttom
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U1002 TURBO CAT-(WB 2&3 only) catalogue creator
U1003 LOTTORY WINNER V2-new version
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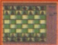

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GAMES

G222 MEGA 21 GAMES amazing 21 games
G235 DRAGON-CAVE brilliant 3D puzzle games
G240 QUADRIX very addict excellent
G242 TAKE EM OUT like to Operation wolf
G253 DESTINE MOON BASE Arcade conversion
G272 TANK BATTLE 2 player tank battle game
G278 ARCADIA the best ARKNOID clone
G300 Q-BOID cross TETRIX and INVADERS.
G303 DIMENSION X 2 player LIGHT CYCLE GAME
G310 NEBULAR Excellent 3D shoot em up
G316 GALACTIC Excellent 8 levels arcade
G317 HYPER-BALL Speed ball +level editor
G320 GHOST-SHIP Very good 3D adventure
G325 BATTLEMENT hunch back of notcha
G326 MEGA GAME COLLECTIONS III 3 top games
G329 MADONNA NUDE PUZZLES for 18+ only
G331 GRAVITY massive space exploring game
G333 CYBER-NETIC Brilliant 8 way blaster
G334 DONKEY KONG -(A1200 order code AGA296)
G335 CRAZY SUE II- best platform to date
G342 SUPER SKODA CHALLENGE (& track editors)
G344 STAR-TREK similar to RAID2 but harder
G355 DOODY very cute & extremely addict
G356 WONDER LAND amazing graphic recommed
G362 DELUXE PACMAN + best pacman ever release
G367 CARD GAMES collection
G368 WIZARD-DOMAINS-dugeon type games
G370 KALATRIZ (notA1200) arcade tetriz clone
G373 AIR ACE II Very playable shoot em up
G384 OTHELLO best PD version
G386 MOUSE IMPOSSIBLE very addictive puzzle
G390 TETREN most polish Tetriz ever release
G392 STRIKEBALL brilliant base ball clone
G399 TRAILBLAZER brilliant (not A1200)
G400 FIGHTING WARRIOR like street fighter
G404 DOMINOES only one of it kind on PD
G406 TOTAL WARS -strategy like chess in space
G411 BATTLE CAR 2- 3D car racing
G431 NESTER CARD GAME- hours of fun for a quit.
G435 ROULETE american roulete excellent
G438 TRAILBLAZER 2 C64 conversion
G441 E-TYPE 2- very good asteroid great graphic
G443 OLEMPIAD DISK (2D) Olympic sport events
G445 DESCENDER GAME tank, search & desender
G446 OBLIDOX excellent Arcade/Puzzle game
G448 PARACHUTE JOUST quite playable
G455 CASTLE OF DOOM VG graphic adventure.
G460 WIBBLE WORLD GIDDY Large platform game
G467 CASH FRUIT- good fruit machines
G478 AMOS CRICKET cricket games
G488 EXTREAM VILONCE 2 player battle out
G489 ENGIMA MACHINE very challenging puzzle
G490 MEGA BALL 2 very playable break out clone
G491 BOUNCE & BLAST brilliant platform 10/10
G492 ZOMBIES & DEFENDER 2 fantastic games
G494 MERCANERY SIMULATION 3D wars games
G499 LIFE -emulation very interesting
G500 TRANSPLANT dozen of level fast arcade.
G501 KLAWZ THE KAT-great platform games
G511 HIGHWAY HELL like SPY HUNTER on the C64
G531 OPERATION FIRESTORMS-brilliant
G534 CASTLE KUMQUAT similar to Alien breed
G535 BLACK DAWN brilliant graphic adventure
G538 MORIA 5.4 The latest Dungeon & dragon
G539 BRIDGE Good version of bridges
G540 ORK ATTACK bloody adventure

101 GAMES

PRICE ONLY £9.99

Brilliant collection of over 100 of the very best of PD games includes INVADER 2, Tetris, Monopoly etc Much too many to list. Very easy to use menu system Most games come with full playing instructions

MUST FOR ANY GAME PLAYER

COMPATIBLE WITH ALL AMIGAS

All games are selectable from an easy to use menu & most games come with full playing instructions

G541 REBOUNCE 2 player futuristic breakout
G542 ROAD TO HELL brilliant car racing
G544 SUPERTOM CAT New vertical shoot em up.
G545 KUNGFU CHARLIES mix with platform brill.
G546 RAID 4 latest vertical scroll shoot em up
G548 QUIZMASTER very good quiz programe
G552 ELEVATION games base on lift ??
G560 IMPERIAL WALKER -Base on STAR WAR games
G567 STARBASE 13 (2D) Brll like MONKEY ISLAND
G657 AMOS LOADSA MONEY best FRUIT-MACHINES
G659 MR MEN OLYMPIC (2D) many event to complete
G660 4 L.C.D DREAM 4 small hand held gamesG
664 NEIGHBOUR GAMES (2D) base on the TV series
G665 TIME RUNNER (WB2/3) Brilliant graphic
G667 GOLF (2DISK) One of the first & decent GOLF
G668 AMOS CRICKET 2 New Amos cricket simulator
G669 MUGSY REVENGE gangster graphic adventure
G672 JIGSAW (2DISK) very playable jigsaw games
G673 BOBBY GARDEN + DIGGER (NEW) Brilliant
G674 HIGH OCTANE Fast car racing (notwb1.3)
G675 TIME RUNNER amazing graphic adventure
G680 SPACE-INVASION 2 - Fantastic Galaxain
G681 AUTOMOBILES - PD version of SKID MARK bril
G682 BANDIT MANIA - Brilliant fruit machine demo
G685 PROJECT BUZZ BAR -Brilliant asteroid
G689 GUN FIGHT (not A500(1.3)
G690 THE REAL POPEYE 64 (a500 1.3 only)
G692 SYSTEM DEFEND-Brilliant Defender clone
G698 AMIGA-BOY-Game boy emulaor + tetriz
G732 DETHELL IN SPACE. Recommed.
G735 OVERLANDER Brilliant arcade MOON ALERT
G737 SERIOUS BACKGAMMON The best in PD BG

101 GAMES 2

PRICE ONLY £10.99

This is the very latest all new 101 games compilation pack 2 containing some of the very best in PD games like Zeus, Wonderland, Dragonflies etc. Much too many to list

COMPATIBLE WITH ALL AMIGAS

All games are selectable from an easy to use menu & most games come with full playing instructions

G771 STAR WOID (2 Disk) brilliant Thrust
G772 UN-SENSIBLE SOCCER very similar toSensible spoccer games. RECOMMEND
G773 FRUIT MANIA -Brilliant Fruit machine.
G774 TRICKLE TREAT -like DOOM on the PC
G775 FOOT-BALL MANAGER-new version
G782 SOLO ASSAULT 3D like Wing Commander
G783 SEED OF DARKNESS-Brilliant graphic adven
G784 NANO FLY Superb explore game RECOMMEND
G785 THE GREAT GOLD RAID- very addicted
G787 ANT WAR V1.9 (LATEST) not 1.3
G788 ZENO-MORPH -Great grahic
G789 TASK FORCE very good MIND SHADOW clone
G790 GREEN FIVE Amazing 3D graphic like
G791 PROFFESIONAL BINGO CALLER
G792 MARTIAL SPRIT like Street fighter II
G798 6 EXCELLENT CARD GAMES collection
G809 BLITZ 2 fast action shooting games
G810 EXIT 13 Brilliant puzzle
G811 TEMPORAL MISPLACEMENT-graphic adventure
G812 ADAY AT THE RACE-V.Goodhorse racing games
G820 BOULDER ORIGINAL with 80 level
G821 BOULDERDASH cave/level Construction kit
G822 BOULDER COLLECTION 2/3 160 level (2disk)
G839 BOULDER PACK with 640 level on 8 disk
G860 ALIEN NET WORK-new Spacing Invader
G862 BATTLE FORCE excellent text adventure
G863 GNU CHESS the best chess with 10 level
G866 SWORD OF YIGG Graphic adventure
G867 POWER-TETRIZ for 1 or 2 player
G868 SUPER SMASHING TETRIZ
G870 CHESS II & CHECKER One of the best around must for all CHESS or CHECKER player
G871 GRAVITY FORCE 2 1 or 2 player thrust clone

G872 SCHNEBITZ Commercial quality puzzle games
G875 DELEXE GALA v2.3(new) add new feature &bouns gamme + 2 player RECOMMEND. get it now
G876 THE KRILLIAN INCENDENT like ELITE2/Epic
G878 QUANTUM-Maze colect & escape type games

NEW 101 GAMES PK 3

new 101 pack 3 contains over 100 games. run on all Amigas only £11.99 offer buy any 2 pack together & recieve a free £4 token for use with next order "this offer cannot be used with any other offer current & subject to condition apply

G879 RAG TO RICHES - like MONOPLY
G884 WIPE OUT-mindless blasting gamse
G885 GODZILLA Another shootem up
G886 SUPER MEGA FRUIT- All new Fruit Machine
G888 DRIVING MANIAC 3D (fill vector likeindi500) car racing- very fast. RECOMMEND
G889 PLANET FALL - Luner Lander clone
G891 BUCK TOOTH ADVENTURE Very good multilevel shootemlect em up RECOMMEND
G892 PENGO 2- Maze type games. Recommend
G893 SUPER OBLITERATION Blast asteroid verysimilar to PANG 2 lot of weapon RECOMMEND
G894 SUPER INVASION II -New SPACING INVADER
G897 THE SHEPERD Brilliant POPULUS clone. REC
G898 ALIEN GENOCIDE (2) Shoot aliens set in space.
G899 PUCKMAN. One of the better PacMan arround.
G900 SUPER-BATTLE ZONE 3D (not WB1.3)
G901 M*A*S*H a (ANTWAR 2) play very similar toLEMMING & WORM, with load of Weapon (Brilliant)
G904 LAST SOLDIER (2) multilevel platform games
G905 CBBERTECH (2) excllent ALIEN BREED Clone
G906 HANGMAN any one for a game?
G907 ACE SPACE nice Platform games
G908 COLOURMANIA slide/Klatriz type puzzle games
G910 HARRY-HADDOCK- Brilliant platformer games
G912 MANGLE FENDER -Brilliant, Smash up othercar/tank ect to win. extremly addicted. get it
G913 ARCADE GAMES CLASSIC Vol 1 & 2 (2d)
G914 HELICOPTER-play like Desert strike
G915 COW WARS. Very addicted 2 player games
G916 ISLAND -Play like Monoply.
G919 COP THE LOT Pro Latest Lottery preditor
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E047 STIRLING ENGINE tutorial & anim graphic
E050 DREAM FOR ANGEL explain the meaning of dream E051 INVISIBLE WORLD brilliant recommend
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AGA138 OFFICIAL WORKBENCH 3 HARDDRIVE INSTALLER
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AGA259 INTEL-OUT another very good demo
AGA260 SOMEJUSTIC94 Demo of the monthbrillant whirl effect. RECOMMEND
AGA262 TO THE DEATH very good STREET-FIGHTER clone with very good graphic.
AGA263 GEORGE GALAXO (2disk) brillantmultilevel shoot/platform game. RECOMMEDN
AGA265 MISSILE OVER ZENON (2disk) Brillant3D missile commander with fantastic graphic
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AGA271 RAVE MAXIMUM OVERDRIVE II (2disk)
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G960 MORTAL KUMQUAT 3 - Weird but fun beat-em-up
G961 CODE NAME NANO - Superb Thrust clone (NANO FLY 2)
G962 MICRO MARKET V3 - Get rich by buying shares. Great games
G963 POKER-MANIA - if you like poker then this is for you
G965 LETHAL FORMULA - Adventure similar to Monkey Island
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E254 WORD PUZZLE PRO - Create Crossword puzzle or solve puzzle
E255 KID DISK 7 - Another very fine education program
E256 EARLY LEARNER (age 3-5) teach your kids how to read
E257 A-Z COUNTRY OF THE WORLD
E258 UK COUNTIES - Similar to above but this is based entirely on ENGLAND, WALES, SCOTLAND & NORTHERN ISLAND
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E261 MASSIVE GUIDE TO THE INTERNET V2.3
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U297 VISICALC Great database lots o functions
U356 TEXT-ENGINE V3.4 – full feature wordprocessor
U343 LITTLE OFFICE – database/wordprocessor/spreadsheet
U345 HOME BUSINESS JOURNAL – easy to use database
U357 BON APPETIT DATABASE many receipt
U364 HOME ACCOUNT – Account program
U368 AMICASH regarded as the best account prog. Excellent
U369 JOURNAL full feature account program
U385 LORAN NOTE BOOK database & world map
U390 DATA BASE compilation – best sell to date
U398 MORTGAGE CALC calculate mortgage repayment rate etc
U426 MONEY PROGRAM very good account program
U437 ACCOUNT MASTER V2.8 new account program
U520 HOUSE INVENTORY – ideal for home insurance
U559 ADDRESS PRINT V2.1 store & print addresses
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18 DEMOS

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X74 MADONA (SEX) (3)
X01 SHOWER GIRL
X03 BODY TALK (2)
X09 MARIE WHITTAKER
X24 SABRINA SPECIAL
X25 DIE FILKINGER
X26 MADONA EARLY DAY
X28 KATHY LLOYD
X30 MEGA-MAID
X31 CALENDER GIRL
X32 MAY FAIR
X33 UTOPIA (4 DISK)
X45 GIRLS OF SPORT
X49 PAGE 3 GIRL
X70 GON GON GIRL
X71 TINA SMALLhot
X91 CINDY CALENDAR 95
X96 HOT BABE 1
X97 HOT BABE 2
X98 HOT BABE 3
X99 HOT BABE 4
X100 HOT BABE 5
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Backchat

Please note our new address will be CU Amiga Magazine, EMAP Images, 37-39 Millharbour, Isle of Dogs, London E14 9TX.

Tower power

You recently mentioned that you would be doing a feature/project on adapting PC power supplies for use with an A1200 and putting an A1200 in a tower case. Although I already have a Goliath power supply I would be very interested in a project to put an A1200 into a tower case and using a PC power supply which normally comes built into the tower. This would enable me to use my two IDE hard disk drives and CD-ROM and to get a Blizzard 1240 accelerator. I have only seen the Eagle tower for the A1200 advertised but at £180 for the case and £60 for the power supply this seems rather steep. A standard PC tower costs about £40/50 including power supply. The only problem I see is with the backplane where it would be nice to have the Amiga motherboard slot in to provide straight access to all the ports – no need for major rewiring! If a cheap enough solution came up it would probably interest loads of readers who would rather buy 16Mb of RAM than spend twice that amount on a box!

Karim Akhtaremail, Emailand.

You and a thousand people like you have been writing in to us on this subject. So to please you all the first of a series on how to build your own tower starts this issue. Turn there now.

Demos for me

I just want to give my views on the 'demos killing company profits' argument. For me this could not be further from the truth. There has been many a time when I have used a demo of some software which I would never have dreamed of buying, for example IBrowse, Super Tennis Champs and Syndicate. But after playing the various cover disks and demos, I went straight out to the shops and bought them. I also would probably have never upgraded from my 600 if I hadn't tasted the 'serious' side of Amigas, your PageStream demo, was one such thing that made me go out and buy a printer. Then, when magazines started putting CDs on the covers ... I went out and got a CD drive, a hard drive and a modem. Realising the need for extra memory and speed to make use of all my new toys, I purchased an 030 accelerator and 4Mb Fast RAM. All this from a few cover disks ... and this is killing the Amiga! And what about all the Internet demos of AmIRC and AmFTP? Surely the shareware demos are the main income for the programmers?

I say piff to those far-off and unresearched ideas, the software demos HELP the Amiga a great deal ... Now if only you mags could start putting time limited hard drives and accelerators on covers ... then the market would really pick up ...

James Caygill, Emailand.

A colourful job

We are a new team of games developers who are looking for a graphical artist to work on our planned commercial releases. Experience with Imagine and Real3D is required.

For more information please contact Alvaro Thompson, Team Mango,17 Bank Gardens, Ryde, Isle of White PO33 2SY.

Spain says no to floppy disks!

Hello, I'm a Spanish Amiga user who reads your great magazine. I have a CD drive and I buy your mag every month but I'd like to know why you don't send the CD version of CU Amiga Magazine over here. I have a lot of floppies with a few Mb on but compared to the massive 650Mb that I could be getting from your CD it's a shame. Nobody would prefer a floppy instead of a CD ... even if someone doesn't have a CD unit, when they get about five or six CDs they'll soon realise that they need one. This situation happened in the PC market three years ago. Help users to wake up! Nowadays no serious magazines sell floppy disk versions. We are giving the computer community reasons to laugh at us. How can we expect people to think that the Amiga is a serious computer if you are still putting out floppy disk versions in 1997? So please, stop editing the floppy issue, you are holding back the Amiga's development. It's a leap backward ...

Pep, Spain.

And another one

In Spain it's impossible to buy a copy of your special CD edition. I suppose you make two different editions because some users want to spoil it for others. But you must progress like PC magazines did three years ago. Then, no PC user had a CD-ROM drive, the magazines started to sell CD-mounted cover discs and everybody began to buy CD-ROM drives. It's true you can 'motivate' the Amiga community to improve their setup by giving away only CDs in your cover, when the 'NO CD-ROM owner' realises that he has three or four CDS full of Mb, surely he will buy a CD-ROM drive. The funniest letters I read in your mag was the one which told you that you were fooling the customer by giving away gifts and books on your mag and another one telling you that you were pulling his leg by including a lite version of 'Vista' on the CUCDIII. I think that these are the kind of people who will send you letters telling you that they would prefer a 800K floppy to a 650Mbs CD! Please, print this letter, it could help people to wake up!

Miguel Ramos, Spain.

These two letters were just two of many similar ones that we have been receiving lately. We have contacted out distribution department about the matter and they will be trying to improve the situation. While we agree that there is so much more material on the CD, there are still a lot of people who want the floppy disc versions only.

You lie

I've just purchased your latest mag with super CD-ROM 7. On the CD inlay it says that the CD is 100% full but when I loaded it I found it was only 389Mb. If it was full it would be 650Mb. CD-ROM 6 was only 488Mb full and CD-ROM was

610Mb full. It seems to me it's getting lower every month. At this rate it will not be worth getting the CD version of the magazine because the floppy disk issue will have more on it at this rate. Please could you tell me where the missing Mbs have gone. All the above mentioned CD covers say 100% full. Mine are not.

Mr M Stevens, Kent.

When we say the CD-ROM is full, it is full. The months in question where the data tracks have less than 650Mb present, audio fills the rest of the CD. You can access this by using a CD audio player program or playing track 2 onwards on a normal HiFi CD player. Sometimes when the data track is not 100% full we make sure it is by using the rest of the space to present ultra high quality 16-bit remixes of readers modules. We're sure no-one could argue that our CUCDs are not excellent value for money even with half the material present on them.

Happy to be

I remember about a year or so ago we were told we users should show the developers and supporters that were left on the Amiga scene that we did care and that we were still prepared to spend our money on it. Whilst I'm not naive enough to think that myself and a few others spending a few hundred pounds on some new hardware and software would tempt developers and such like to return wholesale, I did however agree, and still do agree, that the Amiga is worth our time, effort and money, for the foreseeable future.

With the PD and shareware side of the Amiga truly buzzing now, things are surely a lot brighter than you would think. However, the attitude of the software companies doesn't reflect this.

I have come through the ranks as you might say, having used a Spectrum 48K for many years before getting the Amiga. When the 8 bits eventually succumbed to the power and popularity of the 16 bits, it was a slow, gradual process, companies were still prepared to release software on multi platforms. Whereas now, before the nails are in the coffin on the Amiga, almost all of the people who grew rich from us Amiga users have not only abandoned the Amiga but the many thousands of people who have invested time and money in it. I can only believe now that these companies cared little for their customers, putting profit far above anything else. Profit is important to a certain extent but surely if these companies maintain such a short sighted outlook, all they will create in the long run is a vastly fragmented market! Take for instance all the old 8-bit users who lingered on, then the Amiga and ST users who in turn have refused to jump ship, simply for the sake of flashier graphics.

Then there's the SNES and Megadrive owners, who again have seen their market for software collapse, again with companies stopping production, 'because it isn't economical'! With each advance in technology that the softcos and hardware manufacturers foist upon us, the market grows increasingly divided. I see little point in abandoning those who choose to stay with an older machine, when there is surely plenty of money to be made in it. I mean we don't see the tremendous sales now that software used to enjoy do we?

The choice now for computer people who only wish to use computers is either a PC, or the Mac. Surely the PC choice is a step back from where us Amiga users have been heading? And for the Mac, well just how much do Mac users have to pay for software, especially serious software, when in comparison with the Amiga prices are far above what we are used to paying. Is the price of ever greater technology an ever greater financial cost? Granted we get more power from computers for our money now than ever before, but exactly where is the affordable 'home' computer of years before? Who can afford to go into Dixons and pay £1500 for a computer? Considering the uses to which most get put to at home, this is obviously absurd! Well I bought my A1200 for what I know it can do and with so much shareware being available I see little reason to move on. I guess that makes me yet another addition to the ever growing fragmented market.

David Cowdall, Warrington.

Group sessions

Just got a new Amiga? Want to know more about it? You are welcome to attend the Huddersfield Amiga User Group. Meetings are held fortnightly covering various topics such as DTP, graphics, comms, word processing, CD-ROM, music, art, programming and beginners' corner. If you want to know more about any subject there will probably be someone there who knows about it. Find out how to connect the Amiga to the Internet. For further information please contact: Geoff: 01484 543534, Tony:01484 460888, Robert:01484 654291.

Robert Crawshaw, Huddersfield.

And another one.

Please could you inform the Amiga users of Norfolk that there is a new Amiga group that has been started. We currently have over 30 users and are welcoming any other Amiga users to come and join our Amiga group which offers a meeting place for all Amiga owners. The Group is based near Norwich in Felbrigg, and the organiser of this group, John Kelly can be contacted on (01263) 515056.

Carl Warren, Emailand.

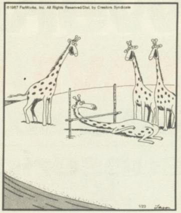
Faster breed

Several months back I issued a challenge to coders to hack Alien Breed 3DII to make it faster on 060 equipped amigas. Well, to those of you out there who were disappointed by the frame rate on 060s I urge you to download and try TKGTurboPatch By Aki Laukkanen. Running as 'tkgpatch c en f' this nearly doubles the frame rate in full screen mode and makes the game very playable with all the goodies switched on! You even get an onscreen frame rate indicator (which Aki informs me is actually lower than the frame rate achieved). I have received Email from Aki indicating that much more can be done with the engine if Team 17 will release the source code for AB3DII into the public domain and that there will be no more updates to tkgpatch until this happens. I realise that this is no small request but maybe Team 17's might make it happen. Think of the good it would do the Amiga programming community if the source to such an advanced program were available.

Ron Hill, Belfast.

The source code for AB3DII was actually included on last month's cover CD, so if anyone else wants to have a go, it's all there.

THE FAR SIDE By GARY LARSON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Points of view

Carry on as you are

by Tony Horgan

It's taken a while, but at last it seems the average Amiga user now has a pretty powerful system at their disposal. There have always been those who would upgrade their Amigas to keep abreast of the latest software developments but until recently there was still a significant number of Amiga users running very basic set-ups but still expecting to be able to work wonders. It's nobody's right to dictate the buying decisions of another, despite the 'upgrade or die' themed editorial comments we've all read too many times in the Amiga press, and if someone still finds their 1Mb floppy-only A500 sufficient for their needs, then fine. Everyone has their own specific uses for their computer and will modify their system accordingly.

However, now that many more Amiga users are running far more capable systems (as preliminary findings from our recent reader survey suggest), the whole Amiga scene is in a much better position to move forward. This issue sees the first of a three-part series on how to overcome the limitations of the A1200 by transplanting it into a PC tower case, in direct response to an overwhelming number of requests for such a feature.

If you're one of those who has yet to expand the Amiga beyond its basic set-up, you're in luck. There has never been a better time to bring your Amiga up to date, especially if you're an A1200 owner. You can now get a 25MHz 68030 accelerator card with an extra 4Mb of RAM on board for 5p less then £100! For around the same price you could add a hefty 850Mb hard drive. Just these two additions alone with revolutionise a stock A1200 beyond all belief and open the door to all kinds of new possibilities. And then of course there's the ever-cheaper CD-ROM drive, which you could add to your Amiga for as little as £50 (as covered in the December 1996 issue of CU Amiga Magazine).

“You can now get a 25MHz 68030 accelerator card with an extra 4Mb of RAM on board for 5p less than £100.”

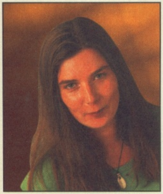
There will inevitably be a certain sector of the Amiga scene which stays firmly rooted in the low end and there's a good reason for that. Walk into any high street computer retailer and you'll be lucky if you're offered anything for less than £1,000. There is no reason why this should be the base price for a home computer but that's the way it is at the moment. Apart from, of course, the Amiga option.

Name another computer that you can plug into your TV to play games and use tons of applications so inexpensively, but also upgrade cheaply and efficiently to match current popular PC systems as and when required.

Most Amiga users have now travelled down that upgrade path to an extent that's beneficial for the whole scene. Let's keep it rolling. ■

■ Tony Horgan is CU Amiga Magazine's Editor.

Get off that fence



by Lisa Collins

Currently a lot of software companies are too busy sitting on the fence getting splinters up their bottoms. A worrying trend amongst the bigger names seems to be to stick one lonely little toe into the Amiga market to test the water and before said digit has time to even get wet, snatch it back out again until further notice. What am I talking about? Broken promises, that's what. I'm tired of listening to software companies drone on about their latest nearly finished game that will be the best game ever to be seen on the face of the earth honest'. Don't get me wrong, I'm never bored hearing about new Amiga releases, it's just when you get all the information about a new wonder release, see it in a nearly finished form, do a preview on it, ring up a few weeks later for the final review and hear:"oh yes, well we are going to concentrate on our other formats until we know what is happening on the Amiga before we release the game or develop any further games."

"Until we know what is happening with the Amiga market" generally refers to until we find out who owns it.

“Currently a lot of software companies are too busy sitting on the fence getting splinters up their bottoms ...”

Let's get this straight: 1997 sees us in a much stronger position than ever before. We are no longer relying on one company to save the day. There are several big companies such as QuikPak, Phase 5 and PIOS who are already developing either Amiga clones or Amiga Operating Systems. Having one named owner will reassure many but it won't change the fact that there is and always will be an Amiga market. There are thousands of people who already have Amigas, who have the cash and are just dying for a half decent game to come out so they can buy it. Now if that isn't a ready-made market then I don't know what is. ■

■ Lisa Collins is CU Amiga Magazine's Deputy Editor.

Back Issues

You don't miss a thing do you? Yes. Well why are looking at this page then?

February 1996

AMIGA
SERIAL KILLER

ON THE DISKS: TextureStudio plus Imagine objects, DVerb, Mandel 92, Bluff Titler, Amiga E source code, Xtreme Racing.
FEATURES: Serial linking, portable Amiga prototypes and the first Net Wedding.
INSIDE: DiskMagic, HiSoft CD-ROM, Virtual i glasses.

March 1996

AMIGA
VROOOM!

ON THE DISKS: VideoStage Pro, Imgauge & XFD, Gloom Deluxe and 10 Worms levels.
FEATURES: VideoStage and The future of Games.
INSIDE: 060 for A1200, Wordworth 5, Blitz Basic, Super Street Fighter II Turbo, Super Skidmarks data disk.

April 1996

AMIGA
OUTBREAK!
AmiFileSafe
LEADING LAP

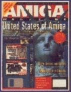
ON THE DISKS: AmiFileSafe, Leading Lap SE – 5 level full game. CD-ROM edition available.
FEATURES: Virus Protection and Wallace & Gromit in the right computer.
INSIDE: SX 32, HiQ Station, The Chaos engine previewed, Zeewolf 2 tips, and more...

May 1996

AMIGA
The New
SOLD OUT

ON THE DISKS: Soundtracker Pro II, MIDI Sequencer demo, Alien Breed 3D2 demo.
FEATURES: Free Amiga music book, the new Walker, Amiga Surfer pack, and the quest for Amigas.
INSIDE: LightWave 4, Slamtilt Pinball, Tracksuit Manager 2 reviewed.

June 1996



ON THE DISKS: Termite demo, Killing Grounds demo. Plus free 96 page net and comms guide.
FEATURES: Escom sells Amiga Technologies, publish your music.
INSIDE: Modem round-up, Total Football and new TimeKeepers disk reviewed.

July 1996

AMIGA
Art Attack
Primal Rage

ON THE DISKS: XiPaint (full program) and Primal Rage demo.
FEATURES: Special report on what's happening in Europe and the latest on Visorp and PIOS.
INSIDE: Image FX 2.6, Surf Squirrel, A4000 Tower, Primal Rage, SWOS Euro and more reviewed.

August 1996

AMIGA
FULL PACKAGE!!!
TRIUMPH!
You can save Amiga!

ON THE DISKS: EasyCalc (full program) and Valhalla III demo.
FEATURES: The future of the Amiga with VIScorp, the new PIOS machine and the second part of the Euroscene feature.
INSIDE: Siamese Twin, Photogenics 2.0, Valhalla III and Tin Toy reviewed.

September 1996

AMIGA
SOLD OUT

ON THE DISKS: Vista Lite (full program) and a demo of Brian Lara Cricket '96. CD-ROM edition too.
FEATURES: The Aminet exposed. All 6 gigabytes!
INSIDE: Final Writer 5, OctaMED SoundStudio, Atapi CD-ROM drive. Plus an exclusive preview of the new AGA Worms.

October 1996

AMIGA
SPEED!
FULL PACKAGE!!!

ON THE DISKS: Upper Disk Tools: ideal for sorting out those awkward disks and drives!
FEATURES: The Amiga in America, Net software...
INSIDE: The speed issue, or something. Three top accelerators, a TCP/IP stack comparison and Capital Punishment.

November 1996

AMIGA
LIMITED STOCK!

ON THE DISKS: XCAD 2000 - The premier 3D CAD package, plus Chaos Engine 2. Choose CD-ROM or floppy edition.
FEATURES: Palmtop Amiga-Psion link-up.
INSIDE: Opus 5.5, Delfina DSP sound card, Web Browser War, Alfa Quatro, CD-ROM writer and more.

December 1996

AMIGA
Wordworth
Super CD-ROM 5

ON THE DISKS: Wordworth 3.1 SE, Worms - The Directors Cut demo. CD-ROM or floppy edition.
FEATURES: CD-ROM drive for £50! Amiga and PC games on CD-ROM.
INSIDE: Draw Studio, Apollo 1230, Storm C, Siamese RTG system, Teen Agent, Tiny Troops and more.

January 1997

AMIGA
Monster 3D Issue!
Super CD-ROM 6

ON THE DISKS: Imagine 4.0, Underwater Capers, plus over 100Mb of Imagine extras on CD. CD-ROM or floppy edition.
FEATURES: Get a job in computer graphics, plus eight pages of Imagine 4.0.
INSIDE: Art Effect, PPaint 7, SWOS 96-97, Fighting Spirit, Chaos Engine 2 ...

February 1997

AMIGA
Dream Machine
Super CD-ROM 7

ON THE DISKS: Design Works, Minskies Furballs plus Worms – the Director's Cut extras and Imagine extras on the CD.
FEATURES: The new A/Box and working in computer graphics part II.
INSIDE: Wordworth 6 Office, Turbo Calc, Minskies Furballs, Bograts reviewed.

March 1997

AMIGA
Graphics Overdrive!
SoundStudio

ON THE DISKS: OctaMED SoundStudio (full program) Chaos Engine 2. Plus Chaos Engine 2 AGA demo and lots more on CD.
FEATURES: Turn your Amiga into a pro studio. Printers: problems solved.
INSIDE: Quickcam, Cyber-vision 3D, SMD 100, JetPilot and tons more reviewed.

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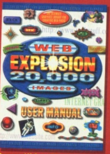

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